Citas a Publicaciones del Dr. Carlos A. Coello Coello

August 28, 2007

Se han utilizado las siguientes claves para denotar los tipos de publicaciones en que cada trabajo fue referenciado: **LIB ING** = Libro en ingés, **JOUR INT** = Journal Internacional, **CONG INT** = Congreso Internacional, **CONG NAC** = Congreso Nacional, **REV DIV** = Revista de Divulgación, **REP TEC** = Reporte Técnico, **CAP LIB** = Capítulo de un libro en inglés, **TES DOC** = Tesis de Doctorado, **TES MAE** = Tesis de Maestría, **TES LIC** = Tesis de Licenciatura.

Libros

- Carlos A. Coello Coello, "Breve Historia de la Computación y sus Pioneros", Fondo de Cultura Económica, México, ISBN 968-16-7106-6, Diciembre de 2003.

    1. Alberto Enrique Nava Garcés, "Análisis de los Delitos Informáticos", Editorial Porrúa, México, 2005, ISBN 970-07-5605-X (página 12).

- **Coello Coello, Carlos A.; Van Veldhuizen, David A. & Lamont, Gary B. "Evolutionary Algorithms for Solving Multi-Objective Problems", Kluwer Academic Publishers, New York, ISBN 0-3064-6762-3, May 2002.**

    1. Joern Mehnen, Thomas Michelitsch, Christian Lasarczyk and Thomas Bartz-Beielstein, "Multi-objective evolutionary design of mold temperature control using DACE for parameter optimization", *International Journal of Applied Electromagnetics and Mechanics*, Vol. 25, Nos. 1–4, pp. 661–667, 2007.
    2. Pascal Cote, Lael Parrott and Robert Sabourin, "Multi-objective optimization of an ecological assembly model", *Ecological Informatics*, Vol. 2, No. 1, pp. 23–31, January 1, 2007.
    3. Maria Joao Alves and Marla Almeida, "MOTGA: A multiobjective Tchebycheff based genetic algorithm for the multidimensional knapsack problem", *Computers & Operations Research*, Vol. 34, No. 11, pp. 3458–3470, November 2007.

4. Mario Köppen, Katrin Franke and Raul Vicente-Garcia, "Tiny GAs for image processing applications", *IEEE Computational Intelligence Magazine*, Vol. 1, No. 2, pp. 17–26, May 2006.
5. G. Li, M. Li, S. Azarm, J. Rambo and Y. Joshi, "Optimizing thermal design of data center cabinets with a new multi-objective genetic algorithm", *Distributed and Parallel Databases*, Vol. 21, Nos. 2–3, pp. 167–192, June 2007.
6. Chandan Guria, Mohan Varma, Surya P. Mehrotra and Santosh K. Gupta, "Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm-II: More complex problems", *International Journal of Mineral Processing*, Vol. 79, No. 3, pp. 149–166, June 2006.
7. Y. Tang, P.M. Reed and J.B. Kollat, "Parallelization strategies for rapid and robust evolutionary multiobjective optimization in water resources applications", *Advances in Water Resources*, Vol. 30, No. 3, pp. 335–353, March 2007.
8. J.B. Kollat and P.M. Reed, "A computational scaling analysis of multiobjective evolutionary algorithms in long-term groundwater monitoring applications", *Advances in Water Resources*, Vol. 30, No. 3, pp. 408–419, March 2007.
9. Ivan Blecic, Arnaldo Cecchini and Giuseppe A. Trunfio, "A decision support tool coupling a causal model and a multi-objective genetic algorithm", *Applied Intelligence*, Vol. 26, No. 2, pp. 125–137, April 2007.
10. J.W. Large, D.F. Jones and M. Tamiz, "Hyper-spherical inversion transformations in multi-objective evolutionary optimization", *European Journal of Operational Research*, Vol. 177, No. 3, pp. 1678–1702, March 16, 2007.
11. Sahnan A. Khan and Andries P. Engelbrecht, "A new fuzzy operator and its application to topology design of distributed local area networks", *Information Sciences*, Vol. 177, No. 13, pp. 2692–2711, July 1, 2007.
12. M.R. Gholamian, S.M.T. Fatemi Ghomi and M. Ghazanfari, "A hybrid system for multiobjective problems - A case study in NP-hard problems", *Knowledge-Based Systems*, Vol. 20, No. 4, pp. 426–436, May 2007.
13. Patrick Reed, Joshua B. Kollat and V.K. Devireddy, "Using interactive archives in evolutionary multiobjective optimization: A case study for long-term groundwater monitoring design", *Environmental Modelling & Software*, Vol. 22, No. 5, pp. 683–692, May 2007.
14. Carlos Gomes da Silva, José Figueira and João Clímaco, "Integrating partial optimization with scatter search for solving bi-criteria {0,1}-knapsack problems", *European Journal of Operational Research*, Vol. 177, No. 3, pp. 1656–1677, March 16, 2007.
15. M.R. Gholamian, S.M.T. Fatemi Ghomi and M. Ghazanfari, "A hybrid intelligent system for multiobjective decision making problems", *Computers and Industrial Engineering*, Vol. 51, No. 1, pp. 26–43, September 2006.

16. C. Gil, A. Marquez, R. Baños, M.G. Montoya and J. Gomez, "A hybrid method for solving multi-objective global optimization problems", *Journal of Global Optimization*, Vol. 38, No. 2, pp. 265–281, June 2007.

17. Sebastien J. Wolff, "Statically Stable Assembly Sequence Generation and Structure Optimization for a Large Number of Identical Building Blocks", PhD thesis, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, December 2006 (**TES DOC**).

18. Cyril Fillon and Alberto Bartoli, "Multi-objective Genetic Programming for Improving the Performance of TCP", in Marc Ebner, Michael O'Neill, Anikó Ekárt, Leonardo Vanneschi and Anna Isabel Esparcia-Alcázar (editors), *Genetic Programming, 10th European Conference, EuroGP 2007*, pp. 170–180, Springer. Lecture Notes in Computer Science Vol. 4445, Valencia, Spain, April 2007.

19. Ningchuan Xiao, David A. Bennett and Marc P. Armstrong, "Interactive evolutionary approaches to multiobjective spatial decision making: A synthetic review", *Computers Environment and Urban Systems*, Vol. 31, No. 3, pp. 232–252, May 2007.

20. Henrik Saxén, Frank Pettersson and Kiran Gunturu, "Evolving Nonlinear Time-Series Models of the Hot Metal Silicon Content in the Blast Furnace", *Materials and Manufacturing Processes*, Vol. 22, No. 5, pp. 577–584, 2007.

21. Julia Handl, Douglas B. Kell and Joshua Knowles, "Multiobjective optimization in bioinformatics and computational biology", *IEEE-ACM Transactions on Computational Biology and Bioinformatics*, Vol. 4, No. 2, pp. 279–292, April-June 2007.

22. David I. Broadhurst and Douglas B. Kell, "Statistical strategies for avoiding false discoveries in metabolomics and related experiments", *Metabolomics*, Vol. 2, No. 4, pp. 171–196, December 2006.

23. A.J. Rivera, I. Rojas, J. Ortega and M.J. del Jesus, "A new hybrid methodology for cooperative-coevolutionary optimization of radial basis function networks", *Soft Computing*, Vol. 11, No. 7, pp. 655–668, May 2007.

24. S.H. Yeung, W.T. Luk, H.K. Ng, K.F. Man and C.H. Chan, "A jumping genes paradigm for the design of wide-band patch antenna with double shorting wall", *Microwave and Optical Technology Letters*, Vol. 49, No. 3, pp. 706–709, March 2007.

25. Andres L. Medaglia, Samuel B. Graves and Jeffrey L. Ringuest, "A multiobjective evolutionary approach for linearly constrained project selection under uncertainty", *European Journal of Operational Research*, Vol. 179, No. 3, pp. 869–894, June 16, 2007.

26. Richard S. Segall and Qingyu Zhang, "Data visualization and data mining of continuous numerical and discrete nominal-valued microarray databases for bioinformatics", *Kybernetes*, Vol. 34, Nos. 9–10, pp. 1538–1566, 2006.

27. Sai-Ho Yeung and Kim-Fung Man, "A jumping genes paradigm with fuzzy rules for optimizing digital IIR filters", *Neural Information Processing, Pt 2, Proceedings*, pp. 568–577, Springer-Verlag, Lecture Notes in Computer Science Vol. 4233, 2006.
28. Satish V. Ukkusuri, Tom V. Mathew and S. Travis Waller, "Robust transportation network design under demand uncertainty", *Computer-Aided Civil and Infrastructure Engineering*, Vol. 22, No. 1, pp. 6–18, January 2007.
29. E. Alba, B. Dorronsoro, F. Luna, A.J. Nebro, P. Bouvry and L. Hogie, "A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs" , *Computer Communications*, Vol. 30, No. 4, pp. 685–697, February 26, 2007.
30. P. Kumar, D. Gospodaric and P. Bauer, "Improved genetic algorithm inspired by biological evolution", *Soft Computing*, Vol. 11, No. 10, pp. 923–941, August 2007.
31. S.R. Jangam and N. Chakraborti, "A novel method for alignment of two nucleic acid sequences using ant colony optimization and genetic algorithms", *Applied Soft Computing*, Vol. 7, No. 3, pp. 1121–1130, June 2007.
32. Martin Josef Geiger, "On operators and search space topology in multiobjective flow shop scheduling", *European Journal of Operational Research*, Vol. 181, No. 1, pp. 195–206, August 16, 2007.
33. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, "A jumping-genes paradigm for optimizing factory WLAN network", *IEEE Transactions on Industrial Informatics*, Vol. 3, No. 1, pp. 33–43, February 2007.
34. E.-G. Talbi, S. Cahon and N. Melab, "Designing cellular networks using a parallel hybrid metaheuristic on the computational grid", *Computer Communications*, Vol. 30, No. 4, pp. 698–713, February 26, 2007.
35. K. Atashkari, N. Nariman-Zadeh, M. Golcu, A. Khalkhali and A. Jamali, "Modelling and multi-objective optimization of a variable valve-timing spark-ignition engine using polynomial neural networks and evolutionary algorithms", *Energy Conversion and Management*, Vol. 48, No. 3, pp. 1029–1041, March 2007.
36. Karl Doerner, Axel Focke and Walter J. Gutjahr, "Multicriteria tour planning for mobile healthcare facilities in a developing country", *European Journal of Operational Research*, Vol. 179, No. 3, pp. 1078–1096, June 16, 2007.
37. Hisao Ishibuchi and Yusuke Nojima, "Analysis of interpretability-accuracy tradeoff of fuzzy systems by multiobjective fuzzy genetics-based machine learning", *International Journal of Approximate Reasoning*, Vol. 44, No. 1, pp. 4–31, January 2007.
38. L. Grandinetti, F. Guerriero, G. Lepera and M. Mancini, "A niched genetic algorithm to solve a pollutant emission reduction problem in the manufacturing industry: A case study", *Computers & Operations Research*, Vol. 34, No. 7, pp. 2191–2214, July 2007.

39. Brian J. Ross and Eduardo Zuviria, "Evolving dynamic Bayesian networks with multi-objective genetic algorithms", *Applied Intelligence*, Vol. 26, No. 1, pp. 13–23, February 2007.

40. Lam T. Bui, Kalyanmoy Deb, Hussein A. Abbass and Daryl Essam, "Dual guidance in evolutionary multi-objective optimization by localization", *Simulated Evolution and Learning, Proceedings*, Springer, Lecture Notes in Computer Science Vol. 4247, pp. 384–391, 2006.

41. Miguel A. Martinez, Javier Sanchis and Xavier Blasco, "Multiobjective controller design handling human preferences", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 8, pp. 927–938, December 2006.

42. Pedro P.B. de Oliveira, Jose C. Bortot and Gina M. B. Oliveira, "The best currently known class of dynamically equivalent cellular automata rules for density classification", *Neurocomputing*, Vol. 70, Nos. 1–3, pp. 35–43, December 2006.

43. Hisao Ishibuchi, Yusuke Nojima and Isao Kuwajima, "Finding simple fuzzy classification systems with high interpretability through multiobjective rule selection", *Knowledge-Based Intelligent Information and Engineering Systems, Pt 2, Proceedings*, pp. 86–93, Springer, Lecture Notes in Artificial Intelligence Vol. 4252, 2006.

44. Thomas Hanne, "A multiobjective evolutionary algorithm for approximating the efficient set", *European Journal of Operational Research*, Vol. 176, No. 3, pp. 1723–1734, February 1, 2007.

45. Kazi Shah Nawaz Ripon, Sam Kwong and K. F. Man, "A real-coding jumping gene genetic algorithm (RJGGA) for multiobjective optimization", *Information Sciences*, Vol. 177, No. 2, pp. 632–654, January 15, 2007.

46. Kalyanmoy Deb and Himanshu Gupta, "Introducing robustness in multiobjective optimization", *Evolutionary Computation*, Vol. 14, No. 4, pp. 463–494, Winter 2006.

47. M. Ali-Tavoli, N. Nariman-Zadeh, A. Khakhali and M. Mehran, "Multiobjective optimization of abrasive flow machining processes using polynomial neural networks and genetic algorithms", *Machining Science and Technology*, Vol. 10, No. 4, pp. 491–510, October-December 2006.

48. Hernán E. Aguirre and Kiyoshi Tanaka, "Working principles, behavior, and performance of MOEAs on MNK-landscapes", *European Journal of Operational Research*, Vol. 181, No. 3, pp. 1670–1690, 16 September, 2007.

49. Pradyumn Kumar Shukla and Kalyanmoy Deb, "On finding multiple Pareto-optimal solutions using classical and evolutionary generating methods" *European Journal of Operational Research*, Vol. 181, No. 3, pp. 1630–1652, 16 September, 2007.

50. Hiroyuki Sato, Hernán E. Aguirre and Kiyoshi Tanaka, "Local dominance and local recombination in MOEAs on 0/1 multiobjective knapsack problems", *European Journal of Operational Research*, Vol. 181, No. 3, pp. 1708–1723, 16 September, 2007.

51. Arnaud Liefooghe, Matthieu Basseur, Laetitia Jourdan and El-Ghazali Talbi, "ParadisEO-MOEO: A Framework for Evolutionary Multi-objective Optimization", in Shigeru Obayashi, Kalyanmoy Deb, Carlo Poloni, Tomoyuki Hiroyasu and Tadahiko Murata (editors), *Evolutionary Multi-Criterion Optimization, 4th International Conference, EMO 2007*, pp. 386–400, Springer. Lecture Notes in Computer Science Vol. 4403, Matshushima, Japan, March 2007 (**CONG INT**).
52. Yehoon Kim, Jong-Hwan Kim and Kuk-Hyun Han, "Quantum-inspired Multiobjective Evolutionary Algorithm for Multiobjective 0/1 Knapsack Problems", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 9151–9156, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
53. Kiyoharu Tagawa and Norihiko Kojima, "Multi-Objective Optimum Design of DMS Filters Using Robust Engineering and Genetic Algorithm", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 7972–7978, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
54. Deon Garrett and Dipankar Dasgupta, "Analyzing the Performance of Hybrid Evolutionary Algorithms for the Multiobjective Quadratic Assignment Problem", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6174–6181, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
55. Shin Ando and Einoshin Suzuki, "Distributed Multi-objective GA for Generating Comprehensive Pareto Front in Deceptive Optimization Problems", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 5718–5725, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
56. Masahiko Sato, Hernán E. Aguirre and Kiyoshi Tanaka, "Effects of δ-Similar Elimination and Controlled Elitism in the NSGA-II Multiobjective Evolutionary Algorithm", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3980–398, IEEE, Vancouver, BC, Canada, July 2006.
57. Hisao Ishibuchi, Yusuke Nojima and Tsutomu Doi, "Comparison between Single-Objective and Multi-Objective Genetic Algorithms: Performance Comparison and Performance Measures", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3959–3966, IEEE, Vancouver, BC, Canada, July 2006.
58. Brian J. Ross, William Ralph and Hai Zong, "Evolutionary Image Synthesis Using a Model of Aesthetics", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3832–3839, IEEE, Vancouver, BC, Canada, July 2006.
59. Kalyanmoy Deb and Dhish Kumar Saxena, "Searching for Pareto-optimal solutions through dimensionality reduction for certain large-dimensional multi-objective optimization problems", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3353–3360, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
60. Andrés L. Medaglia, Eliécer Gutiérrez and Juan Guillermo Villegas, "Solving Facility Location Problems with a Tool for Rapid Development of

Multi-Objective Evolutionary Algorithms (MOEAs)", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 642–660, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).

61. Nirupam Chakraborti, "How Genetic Algorithms Handle Pareto-Optimality in Design and Manufacturing", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 465–481, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).
62. Sharth Babu Musunoori and Geir Horn, "Ant-Based Approach to the Quality Aware Application Service Partitioning in a Grid Environment", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 2604–2611, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
63. José Ramón Cano de Amo, "Reducción de datos basada en Selección Evolutiva de Instancias para Minería de Datos", PhD thesis, Departamento de Ciencias de la Computación e Inteligencia Artificial, Universidad de Granada, Spain, July 2004 (**TES DOC**).
64. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
65. Maríaa Luque, Oscar Cordón and Enrique Herrera-Viedma, "A Multi-Objective Genetic Algorithm for Learning Linguistic Persistent Queries in Text Retrieval Environments", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 601–627, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
66. J.M. Lucas, H. Martinez and F. Jimenez, "Fuzzy Tuning for the Docking Maneuver Controller of an Automated Guided Vehicle", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 585–600, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
67. Hussein Abbass, "Pareto-Optimal Approaches to Neuro-Ensemble Learning", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 407–427, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
68. Urszula Markowska-Kaczmar and Krystyna Mularczyk, "GA-Based Pareto Optimization for Rule Extraction from Neural Networks", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 313–338, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
69. Yaochu Jin, Bernhard Sendhoff and Edgar Körner, "Simultaneous Generation of Accurate and Interpretable Neural Network Classifiers", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 291–312, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).

70. DaeEun Kim, "Minimizing Structural Risk on Decision Tree Classification", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 241–260, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).

71. Thorsten Suttorp and Christian Igel, "Multi-Objective Optimization of Support Vector Machines", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 199–220, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).

72. Christian Igel, Nikolaus Hansen and Stefan Roth, "Covariance Matrix Adaptation for Multi-objective Optimization", *Evolutionary Computation*, Vol. 15, No. 1, pp. 1–28, Spring 2007 (**JOUR INT**).

73. Raúl Baños Navarro, "Meta-heurísticas Híbridas para Optimización Mono-objetivo y Multi-objetivo. Paralelización y Aplicaciones", PhD thesis, Departamento de Arquitectura de Computadores y Electrónica, Universidad de Almería, Spain, December 2006 (**TES DOC**).

74. Martin Albrecht Trefzer, "Evolution of Transistor Circuits", PhD thesis, Ruperto-Carola-University of Heidelberg, Germany, 2006 (**TES DOC**).

75. Robin Gras, "Structure des espaces de recherche, complexité des algorithmes d'optimisation combinatoire stochastique et applications à la bioinformatique", Habilitation à Diriger les Recherches, Université de Rennes I, France, December 2004 (**TES DOC**).

76. Nicolas Jozefowiez, "Modélisation et Résolution Approchée de Problèmes de Tournées Multi-Objectif", PhD thesis, Université des Sciences et Technologies de Lille, France, December 2004 (**TES DOC**).

77. Thomas Bartz-Beielstein, Annette Chmielewski, Michael Janas, Boris Naujoks and Robert Scheffermann, "Optimizing Door Assignment in LTL-Terminals by Evolutionary Multiobjective Algorithms", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 348–354, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

78. Alexander Rainer Tassilo Gepperth, "Neural learning methods for visual object detection", PhD thesis, Fakultät für Physik und Astronomie, Ruhr-Universität Bochum, Alemania, Abril 2006 (**TES DOC**).

79. Eduardo Fernández, Fernando López, Jorge Navarro and Alfonso Duarte, "Intelligent Techniques for R&D Project Selection in Large Social Organizations", *Computación y Sistemas*, Vol. 10, No. 1, pp. 28–56, 2006, ISSN 1405-5546.

80. Rafal Drezewski and Leszek Siwik, "Co-Evolutionary Multi-Agent System with Sexual Selection Mechanism for Multi-Objective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 2784–2791, IEEE, Vancouver, BC, Canada, July 2006.

81. E.K. Burke, J.D. Landa Silva and E. Soubeiga, "Hyperheuristic Approaches for Multiobjective Optimisation", in *Proceedings of the 5th Metaheuristics*

International Conference (MIC 2003), pp. 11.1–11.6, Kyoto, Japan, August 2003 (**CONG INT**).

82. Pekka Korhonen, "Interactive Methods", in José Figueira, Salvatore Greco and Matthias Ehrgott (editors), *Multiple Criteria Decision Analysis. State of the Art Surveys*, pp. 641–665, Springer, New York, USA, 2005 (**CAP LIB**).
83. Matthias Ehrgott and Margaret M. Wiecek, "Multiobjective Programming", in José Figueira, Salvatore Greco and Matthias Ehrgott (editors), *Multiple Criteria Decision Analysis. State of the Art Surveys*, pp. 667–722, Springer, New York, USA, 2005 (**CAP LIB**).
84. Julia Handl and Joshua Knowles, "An Evolutionary Approach to Multiobjective Clustering", *IEEE Transactions on Evolutionary Computation*, Vol. 11, No. 1, pp. 56–76, February 2007.
85. Francesco di Pierro, Shoon-Thiam Khu and Dragan A. Savic, "An Investigation on Preference Order Ranking Scheme for Multiobjective Evolutionary Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 11, No. 1, pp. 17–45, February 2007.
86. Michael T.M. Emmerich, "Single- and Multi-objective Evolutionary Design Optimization Assisted by Gaussian Random Field Metamodels", PhD thesis, University of Dortmund, October 2005 (**TES DOC**).
87. C. García-Martínez, O. Cordón and F. Herrera, "A taxonomy and an empirical analysis of multiple objective ant colony optimization algorithms for the bi-criteria TSP", *European Journal of Operational Research*, Vol. 180, No. 1, pp. 116–148, July 1, 2007.
88. Kumara Sastry, D.D. Johnson, Alexis L. Thompson, David E. Goldberg, Todd J. Martinez, Jeff Leiding and Jane Owens, "Multiobjective Genetic Algorithms for Multiscaling Excited State Direct Dynamics in Photochemistry", in Maarten Keijzer et al. (editors), *2006 Genetic and Evolutionary Computation Conference (GECCO'2006)*, pp. 1745–1752, Vol. 2, ACM Press, Seattle, Washington, USA, July 2006, ISBN 1-59593-186-4.
89. Darío Maravall and Javier de Lope, "Multi-objective dynamic optimization with genetic algorithms for automatic parking", *Soft Computing*, Vol. 11, No. 3, pp. 249–257, February 2007.
90. Francesco di Pierro, "Many-Objective Evolutionary Algorithms and Applications to Water Resources Engineering", PhD thesis, School of Engineering, Computer Science and Mathematics, University of Exeter, UK, August 2006 (**TES DOC**).
91. Kalyanmoy Deb and Aravind Srinivasan, "Innovization: Innovating Design Principles Through Optimization", in Maarten Keijzer et al. (editors), *2006 Genetic and Evolutionary Computation Conference (GECCO'2006)*, pp. 1629–1636, Vol. 2, ACM Press, Seattle, Washington, USA, July 2006, ISBN 1-59593-186-4.

92. Francisco Luna, Antonio J. Nebro and Enrique Alba, "Parallel Evolutionary Multiobjective Optimization", in N. Nedjah, E. Alba and L. de Macedo Mourelle (editors), *Parallel Evolutionary Computations*, pp. 33–56, Springer, Berlin Heidelberg, 2006.

93. Lan Luo, "Essays on New Product Development", PhD thesis, University of Maryland, College Park, USA, 2005 (**TES DOC**).

94. J.K.L. Wong, A.J. Mason, M.J. Neve and K.W. Sowerby, "Base station placement in indoor wireless systems using binary integer programming", *IEE Proceedings—Communications*, Vol. 153, No. 5, pp. 771–778, October 2006.

95. F. Pettersson, N. Chakraborti and H. Saxén, "A genetic algorithms based multi-objective neural net applied to noisy blast furnace data", *Applied Soft Computing*, Vol. 7, pp. 387–397, 2007.

96. Neelakantam V. Venkatarayalu and Tapabrata Ray, "Application of Multi-objective Optimization in Electromagnetic Design", in Nadia Nedjah and Luiza de Macedo Mourelle (editors), *Real-World Multi-Objective System Engineering*, pp. 77–100, Nova Science Publishers, New York, 2005.

97. Matthieu Basseur, Franck Seynhaeve and El-Ghazali Talbi, "A Cooperative Metaheuristic Applied to Multi-Objective Flow-Shop Scheduling Problem", in Nadia Nedjah and Luiza de Macedo Mourelle (editors), *Real-World Multi-Objective System Engineering*, pp. 139–162, Nova Science Publishers, New York, 2005.

98. Min Liu and Dan M. Frangopol, "Optimizing bridge network maintenance management under uncertainty with conflicting criteria: Life-cycle maintenance, failure, and user costs", *Journal of Structural Engineering–ASCE*, Vol. 132, No. 11, pp. 1835–1845, November 2006.

99. Kalyanmoy Deb and J. Sundar, "Reference Point Based Multi-Objective Optimization Using Evolutionary Algorithms", in Maarten Keijzer et al. (editors), *2006 Genetic and Evolutionary Computation Conference (GECCO'2006)*, pp. 635–642, Vol. 1, ACM Press, Seattle, Washington, USA, July 2006, ISBN 1-59593-186-4.

100. Christian Haubelt, Thomas Schlichter and Jürgen Teich, "Improving Automatic Design Space Exploration by Integrating Symbolic Techniques into Multi-Objective Evolutionary Algorithms", *International Journal of Computational Intelligence Research*, Vol. 2, No. 3, pp. 239–254, 2006.

101. Julia Handl and Joshua Knowles., "Feature Subset Selection in Unsupervised Learning via Multiobjective Optimization", *International Journal of Computational Intelligence Research*, Vol. 2, No. 3, pp. 217–238, 2006.

102. Dimo Brockhoff and Eckart Zitzler, "Are All Objectives Necessary? On Dimensionality Reduction in Evolutionary Multiobjective Optimization", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J.

Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 533–542, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.

103. Mike Preuss, Boris Naujoks and Günter Rudolph, "Pareto Set and EMOA Behavior for Simple Multimodal Multiobjective Functions", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 513–522, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
104. Julia Karena Handl, "Multiobjective approaches to the data-driven analysis of biological systems", PhD thesis, School of Chemistry, Faculty of Engineering and Physical Sciences, The University of Manchester, UK, 2006 (**TES DOC**).
105. P.A. Castillo, M.G. Arenas, J.J. Merelo, V.M. Rivas and G. Romero, "Multiobjective Optimization of Ensembles of Multilayer Perceptrons for Pattern Classification", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 453–462, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
106. Fabio Freschi and Maurizio Repetto, "VIS: an artificial immune network for multi-objective optimization", *Engineering Optimization*, Vol. 38, No. 8, pp. 975–996, December 2006.
107. L. Araujo, "Multiobjective Genetic Programming for Natural Language Parsing and Tagging", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 433–442, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
108. B. Qian, L. Wang, D.X. Huang and X. Wang, "Multi-objective flow shop scheduling using differential evolution", *Intelligent Computing in Signal Processing and Pattern Recognition*, Springer-Verlag, pp. 1125–1136, Lecture Notes in Control and Information Sciences Vol. 345, 2006.
109. F. Luna, A.J. Nebro and E. Alba, "Observations in using Grid-enabled technologies for solving multi-objective optimization problems", *Parallel Computing*, Vol. 32, Nos. 5-6, pp. 377–393, June 2006.
110. E. Nobile, F. Pinto and G. Rizzetto, "Geometric parameterization and multiobjective shape optimization of convective periodic channels", *Numerical Heat Transfer Part B–Fundamentals*, Vol. 50, No. 5, pp. 425–453, November 2006.
111. J.G. Villegas, F. Palacios and A.L. Medaglia, "Solution methods for the bi-objective (cost-coverage) unconstrained facility location problem with an

illustrative example", *Annals of Operations Research*, Vol. 147, No. 1, pp. 109–141, October 2006.

112. D.T. Pham and M. Castellani, "Evolutionary learning of fuzzy models", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 6, pp. 583–592, September 2006.
113. Shuguang Zhao and Licheng Jiao, "Multi-objective evolutionary design and knowledge discovery of logic circuits on an adaptive genetic algorithm", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 3, pp. 195–210, October 2006.
114. Franciszek Seredynski, "Evolutionary Paradigms", in Albert Y. Zomaya (editor), *Handbook of Nature-Inspired and Innovative Computing. Integrating Classical Models with Emerging Technologies*, Chapter 4, pp. 111–145, Springer, USA, ISBN 0-387-40532-1 (**CAP LIB**).
115. E.V. Krishnamurthy and Vikram Krishnamurthy, "Multiset Rule-Based Programming Paradigm for Soft Computing in Complex Systems", in Albert Y. Zomaya (editor), *Handbook of Nature-Inspired and Innovative Computing. Integrating Classical Models with Emerging Technologies*, Chapter 3, pp. 77–109, Springer, USA, ISBN 0-387-40532-1 (**CAP LIB**).
116. K.C. Tan, Y.J. Yang and C.K. Goh, "A Distributed Cooperative Coevolutionary Algorithm for Multiobjective Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 5, pp. 527–549, October 2006.
117. Maximino Salazar-Lechuga and Jonathan E. Rowe, "Particle Swarm Optimization and auto-Fitness Sharing to Solve Multi-Objective Optimization Problems", in *2006 Swarm Intelligence Symposium (SIS'06)*, pp. 90–97, IEEE Press, Indianapolis, Indiana, USA, May 2006.
118. Clarisse Dhaenens-Flipo, "Optimisation Combinatoire Multi-Objectif: Apport des Méthodes Coopératives et Contribution à L'Extraction de Connaissances", PhD thesis, Université des Sciences et Technologies de Lille, Lille, France, October 2005 (**TES DOC**).
119. J.L. Bernal-Agustin, R. Dufo-Lopez and D.M. Rivas-Ascaso, "Design of isolated hybrid systems minimizing costs and pollutant emissions", *Renewable Energy*, Vol. 31, No. 14, pp. 2227–2244, November 2006.
120. F. Jimenez, J.M. Cadenas, G. Sanchez, A.F. Gomez-Skarmeta and J.L. Verdegay, "Multi-objective evolutionary computation and fuzzy optimization", *International Journal of Approximate Reasoning*, Vol. 43, No. 1, pp. 59–75, September 2006.
121. F. Berlanga, M.J. del Jesus, P. Gonzalez, F. Herrera and M. Mesonero, "Multiobjective evolutionary induction of subgroup discovery fuzzy rules: A case study in marketing", *Advances in Data Mining*, pp. 337–349, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 4065, 2006.
122. A.S. Kurup, K. Hidajat and A.K. Ray, "Comparative study of modified simulated moving bed systems at optimal conditions for the separation of

ternary mixtures of xylene isomers", *Industrial & Engineering Chemistry Research*, Vol. 45, No. 18, pp. 6251–6265, August 30, 2006.

123. Fabian Bastin, "Trust-Region Algorithms for Nonlinear Stochastic Programming and Mixed Logit Models", PhD thesis, Département de Mathématiquem, Facultés Universitaires Notre-Dame de la Paix Namur, Faculté des Sciences, Namur, Belgium (**TES DOC**).
124. T. Biondi, A. Ciccazzo, V. Cutello, S. D'Antona, G. Nicosia and S. Spinella, "Multi-objective evolutionary algorithms and pattern search methods for circuit design problems", *Journal of Universal Computer Science*, Vol. 12, No. 4, pp. 432–449, 2006.
125. R. Kumar and N. Banerjee, "Analysis of a Multiobjective Evolutionary Algorithm on the 0-1 knapsack problem", *Theoretical Computer Science*, Vol. 358, No. 1, pp. 104–120, July 31, 2006.
126. Anders Angantyr, "Rotordynamic Optimization of Large Turbo Systems using Genetic Algorithms", PhD thesis, The Polhelm Laboratory, Division of Computer Aided Design, Lulea University of Technolog, Lulea, Sweden, March 2006 (**TES DOC**).
127. Y. Tang, P. Reed and T. Wagener, "How effective and efficient are multiobjective evolutionary algorithms at hydrologic model calibration?", *Hydrology and Earth System Sciences*, Vol. 10, No. 2, pp. 289–307, 2006.
128. J.B. Kollat and P.M. Reed, "Comparing state-of-the-art evolutionary multiobjective algorithms for long-term groundwater monitoring design", *Advances in Water Resources*, Vol. 29, No. 6, pp. 792–807, June 2006.
129. B.M. Hodge, F. Pettersson and N. Chakraborti, "Re-evaluation of the optimal operating conditions for the primary end of an integrated steel plant using multi-objective genetic algorithms and Nash equilibrium", *Steel Research International*, Vol. 77, No. 7, pp. 459–461, July 2006.
130. P. Nikitas, A. Pappa-Louisi and P. Agrafiotou, "Multilinear gradient elution optimisation in reversed-phase liquid chromatography using genetic algorithms", *Journal of Chromatography A*, Vol. 1120, Nos. 1–2, pp. 299–307, July 7, 2006.
131. L. Siwik and M. Kisiel-Dorohinicki, "Semi-elitist evolutionary multi-agent system for multiobjective optimization", *Computational Science – ICCS 2006, Pt 3, Proceedings*, pp. 831–838, Springer-Verlag, Lecture Notes in Computer Science Vol. 3993, 2006.
132. J. Balicki, "Negative selection with ranking procedure in tabu-based multicriterion evolutionary algorithm for task assignment", *Computational Science - ICCS 2006, Pt 3, Proceedings*, pp. 863–870, Springer-Verlag, Lecture Notes in Computer Science Vol. 3993, 2006.
133. N. Nariman-Zadeh, A. Darvizeh and A. Jamali, "Pareto optimization of energy absorption of square aluminium columns using multi-objective genetic algorithms", *Proceedings of the Institution of Mechanical Engineers Part*

B–Journal of Engineering Manufacture, Vol. 220, No. 2, pp. 213–224, February 2006.

134. P. Lacomme, C. Prins and M. Sevaux, "A genetic algorithm for a bi-objective capacitated arc routing problem", *Computers & Operations Research*, Vol. 33, No. 12, pp. 3473–3493, December 2006.
135. H.S. Kim and P.N. Roschke, "Fuzzy control of base-isolation system using multi-objective genetic algorithm", *Computer-Aided Civil and Infrastructure Engineering*, Vol. 21, No. 6, pp. 436–449, August 2006.
136. R. Romero-Zaliz, C. Rubio-Escudero, O. Cordon, O. Harari, C. del Val and I. Zwir, "Mining structural databases: An evolutionary multi-objetive conceptual clustering methodology", in *Applications of Evolutionary Computing*, pp. 159–171, Springer, Lecture Notes in Computer Science Vol. 3907, 2006.
137. Adnan Acan and Ahmet Unveren, "Evolutionary Multiobjective Optimization with a Segment-Based External Memory Support for the Multiobjective Quadratic Assignment Problem" in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2723–2729, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
138. Lam Thu Bui, Jürgen Branke, and Hussein Abbass, "Multiobjective optimization for dynamic environments", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2349–2356, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
139. Kumara Sastry, Martin Pelikan, and David E. Goldberg, "Limits of Scalability of Multiobjective Estimation of Distribution Algorithms", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2217–2224, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
140. Cagkan Erbas, Selin Cerac-Erbas and Andy D. Pimentel, "Multiobjective Optimization and Evolutionary Algorithms for the Application Mapping Problem in Multiprocessor System-on-Chip Design", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 358–374, June 2006.
141. A. Singh and H.H. Lou, "Hierarchical Pareto optimization for the sustainable development of industrial ecosystems", *Industrial & Engineering Chemistry Research*, Vol. 45, No. 9, pp. 3265–3279, April 26, 2006.
142. K.C. Tan, Y.H. Chew and L.H. Lee, "A hybrid multiobjective evolutionary algorithm for solving vehicle routing problem with time windows", *Computational Optimization and Applications*, Vol. 34, No. 1, pp. 115–151, May 2006.
143. K.C. Tan, Y.H. Chew and L.H. Lee, "A hybrid multi-objective evolutionary algorithm for solving truck and trailer vehicle routing problems", *European Journal of Operational Research*, Vol. 172, No. 3, pp. 855–885, August 1st, 2006.
144. H.A. Abbass, "An economical cognitive approach for bi-objective optimization using bliss points, visualization, and interaction", *Soft Computing*, Vol. 10, No. 8, pp. 687-,698, June 2006.

145. S. Tiwari and N. Chakraborti, "Multi-objective optimization of a two-dimensional cutting problem using genetic algorithms", *Journal of Materials Processing Technology*, Vol. 173, No. 3, pp. 384–393, April 20, 2006.

146. C. Cagne and M. Parizeau, "Genericity in evolutionary computation software tools: Principles and case-study", *International Journal on Artificial Intelligence Tools*, Vol. 15, No. 2, pp. 173–194, April 2006.

147. S.L. Avila, A.C. Lisboa, L. Krahenbuhl, W.P. Carpes, J.A. Vasconcelos, R.R. Saldanha and R.H.C. Takahashi, "Sensitivity analysis applied to decision making in multiobjective evolutionary optimization", *IEEE Transactions on Magnetics*, Vol. 42, No. 4, pp. 1103–1106, April 2006.

148. Kenneth A. De Jong, "Evolutionary Computation. A Unified Approach", The MIT Press, Cambridge, Massachusetts, USA, 2006, ISBN 0-262-04194-4, página 224 (**LIB ING**).

149. Ramesh Rajagopalan, Chilukuri Mohan, Pramod Varshney, and Kishan Mehrotra, "Multi-objective Mobile Agent Routing in Wireless Sensor Networks", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1730–1737, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

150. Raj Subbu, Piero P. Bonissone, Neil Eklund, Srinivas Bollapragada, and Kete Chalermkraivuth, "Multiobjective Financial Portfolio Design: A Hybrid Evolutionary Approach", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1722–1729, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

151. Shinya Watanabe and Kazutoshi Sakakibara, "Multi-objective approaches in a single-objective optimization environment", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1714–1721, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

152. A. Gepperth and S. Roth, "Applications of multi-objective structure optimization", *Neurocomputing*, Vol. 69, Nos. 7–9, pp. 701–713, March 2006.

153. L.A. Welser, R.C. Mancini, J.A. Koch, N. Izumi, S.J. Louis, I.E. Golovkin, T.W. Barbee, S.W. Haan, J.A. Delettrez, F.J. Marshall, R.P. Regan, V.A. Smalyuk, D.A. Haynes and R.W. Lee, "Multi-objective spectroscopic analysis of core gradients: Extension from two to three objectives", *Journal of Quantitative Spectroscopy & Radiative Transfer*, Vol. 99, Nos. 1–3, pp. 649–657, May-June 2006.

154. Rubén Armañanzas and Jose A. Lozano, "A Multiobjective Approach to the Portfolio Optimization Problem", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1388–1395, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

155. J. Teoh, Swee C. Chiam, Chi K. Goh and Kay C. Tan, "Adapting Evolutionary Dynamics of Variation for Multiobjective Optimization", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1290–1297, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

156. Boris Naujoks, Nicola Beume, and Michael Emmerich, "Multi-objective Optimization using S-metric Selection: Application to three-dimensional Solution Spaces", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1282–1289, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

157. P. Kuntz, B. Pinaud and R. Lehn, "Minimizing crossings in hierarchical digraphs with a hybridized genetic algorithm", *Journal of Heuristics*, Vol. 12, Nos. 1–2, pp. 23–36, January 2006.

158. K. Foli, T. Okabe, M. Olhofer, Y.C. Jin and B. Sendhoff, "Optimization of micro heat exchanger: CFD, analytical approach and multi-objective evolutionary algorithms", *International Journal of Heat and Mass Transfer*, Vol. 49, Nos. 5–6, pp. 1090–1099, March 2006.

159. J.J. Huang, G.H. Tzeng and C.S. Ong, "Optimal fuzzy multi-criteria expansion of competence sets using multi-objectives evolutionary algorithms", *Expert Systems with Applications*, Vol. 30, No. 4, pp. 739–745, May 2005.

160. Kenneth V. Price, Rainer M. Storn and Jouni A. Lampinen, "Differential Evolution. A Practical Approach to Global Optimization", Springer, 2005, ISBN 3-540-20950-6, página 249 (**LIB ING**).

161. Hamidreza Eskandari, Luis Rabelo and Mansooreh Mollaghasemi, "Multi-objective Simulation Optimization Using an Enhanced Genetic Algorithm", in M.E. Kuhl, N.M. Steiger, F.B. Armstrong and J.A. Joines, (editors), *Proceedings of 2005 Winter Simulation Conference*, pp. 833–841, Orlando, Florida, USA, December 4-7, 2005.

162. E.G. Talbi and H. Meunier, "Hierarchical parallel approach for GSM mobile network design", *Journal of Parallel and Distributed Computing*, Vol. 66, No. 2, pp. 274–290, February 2006.

163. Lyndon While, Phil Hingston, Luigi Barone, and Simon Huband, "A Faster Algorithm for Calculating Hypervolume", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 29–38, February 2006.

164. K.B. Matthews, K. Buchan, A.R. Sibbald and S. Craw, "Combining deliberative and computer-based methods for multi-objective land-use planning", *Agricultural Systems*, Vol. 87, No. 1, pp. 18–37, January 2006.

165. F. de Toro, E. Ros, S. Mota and J. Ortega, "Evolutionary algorithms for multiobjective and multimodal optimization of diagnostic schemes", *IEEE Transactions on Biomedical Engineering*, Vol. 53, No. 2, pp. 178–189, February 2006.

166. Joshua Knowles, "ParEGO: A Hybrid Algorithm With On-Line Landscape Approximation for Expensive Multiobjective Optimization Problems", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 50–66, February 2006.

167. S. Meshoul, K. Mahdi and M. Batouche, "A quantum inspired evolutionary framework for multi-objective optimization", in *Progress in Artificial Intelligence, Proceedings*, pp. 190–201, Springer, Lecture Notes in Artificial Intelligence, Vol. 3808, 2005.

168. Feng Xue, Arthur C. Sanderson and Robert J. Graves, "Multi-objective differential evolution - algorithm, convergence analysis, and applications", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 743–750, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.

169. Hiroyuki Sato, Hernán E. Aguirre and Kiyoshi Tanaka, "On the Locality of Dominance and Recombination in Multiobjective Evolutionary Algorithms", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 451–458, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.

170. B. Ombuki, B.J. Ross and F. Hanshar, "Multi-objective genetic algorithms for vehicle routing problem with time windows", *Applied Intelligence*, Vol. 24, No. 1, pp. 17–30, February 2006.

171. Andries P. Engelbrecht, "Fundamentals of Computational Swarm Intelligence", John Wiley & Sons, Ltd, 2005, ISBN 978-0-470-09191-3, páginas 41, 197, 283 y 336 (**LIB ING**).

172. M.A. Panduro, C.A. Brizuela, D. Covarrubias and C. Lopez, "A trade-off curve computation for linear antenna arrays using an evolutionary multiobjective approach", *Soft Computing*, Vol. 10, No. 2, pp. 125–131, January 2006.

173. M. Liu, S.A. Burns and Y.K. Wen, "Genetic algorithm based construction-conscious minimum weight design of seismic steel moment-resisting frames", *Journal of Structural Engineering–ASCE*, Vol. 132, No. 1, pp. 50–58, January 2006.

174. Maximino Salazar-Lechuga and Jonathan E. Rowe, "Particle Swarm Optimization and Fitness Sharing to solve Multi-Objective Optimization Problems", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1204–1211, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

175. Salem F. Adra, Ahmed I. Hamody, Ian Griffin and Peter J. Fleming, "A Hybrid Multi-Objective Evolutionary Algorithm Using an Inverse Neural Network for Aircraft Control System Design", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1–8, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.

176. Martina Hasenjäger, Bernhard Sendhoff, Toyotaka Sonoda and Toshiyuki Arima, "Three Dimensional Evolutionary Aerodynamic Design Optimization with CMA-ES", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 2173–2180, Vol. 2, ACM Press, New York, USA, June 2005.

177. C.J.K. Lee, T. Furukawa and S. Yoshimura, "A human-like numerical technique for design of engineering systems", *International Journal for Numerical Methods in Engineering*, Vol. 64, No. 14, pp. 1915–1943, December 14, 2005.

178. Jian-Hung Chen, Shinn-Ying Ho and David E. Goldberg, "Quality-Time Analysis of Multi-Objective Evolutionary Algorithms", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 1455–1462, Vol. 2, ACM Press, New York, USA, June 2005 (**CONG INT**).

179. Feng Xue, "Multi-Objective Differential Evolution: Theory and Applications", PhD thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2004.

180. K. Deb, M. Mohan and S. Mishra, "Evaluating the epsilon-domination based multi-objective evolutionary algorithm for a quick computation of pareto-optimal solutions", *Evolutionary Computation*, Vol. 13, No. 4, pp. 501–525, Winter 2005.

181. L. Poladian and L.S. Jermiin, "Multi-objective evolutionary algorithms and phylogenetic inference with multiple data sets", *Soft Computing*, Vol. 10, No. 4, pp. 359–368, February 2006.

182. Hisao Ishibuchi, Kaname Narukawa and Yusuke Nojima, "An Empirical Study on the Handling of Overlapping Solutions in Evolutionary Multiobjective Optimization", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 817–824, Vol. 1, ACM Press, New York, USA, June 2005.

183. F. Bellas, R.J. Duro and F. Lopez-Pena, "Blind signal separation through cooperating ANNs", *Knowledge-Based Intelligent Information and Engineering Systems, Part 1, Proceedings*, pp. 847–853, Springer, Lecture Notes in Artificial Intelligence Vol. 3681, 2005.

184. O. Cordon, E. Herrera-Viedma and M. Luque, "Improving the learning of Boolean queries by means of a multiobjective IQBE evolutionary algorithm", *Information Processing & Management*, Vol. 42, No. 3, pp. 615–632, May 2006.

185. Hisao Ishibuchi and Kaname Narukawa, "Comparison of Evolutionary Multiobjective Optimization with Reference Solution-Based Single-Objective Approach", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 787–794, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

186. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, "A jumping gene algorithm for multiobjective resource management in wideband CDMA systems", *Computer Journal*, Vol. 48, No. 6, pp. 749–768, November 2005.

187. Frank Neumann and Ingo Wegener, "Minimum Spanning Trees Made Easier Via Multi-Objective Optimization", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 763–769, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

188. Kalyanmoy Deb, Manikanth Mohan and Shikhar Mishra, "Evaluating the ϵ-Domination Based Multi-Objective Evolutionary Algorithm for a Quick

Computation of Pareto-Optimal Solutions", *Evolutionary Computation*, Vol. 13, No. 4, pp. 501–525, Winter 2005.

189. A.J. Nebro, F. Luna, E.-G. Talbi and E. Alba, "Parallel Multiobjective Optimization", in Enrique Alba (editor), *Parallel Metaheuristics*, pp. 371–394, Wiley-Interscience, New Jersey, USA, 2005, ISBN 13-978-0-471-67806-9 (**CAP LIB**).

190. Martin Pelikan, Kumara Sastry and David E. Goldberg, "Multiobjective hBOA, Clustering, and Scalability", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 663–670, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

191. K.K. Kshetrapalapuram and M. Kirley, "Mining classification rules using evolutionary multi-objective algorithms", *Knowledge-Based Intelligent Information and Engineering Systems, Part 3, Proceedings*, Springer, pp. 959–965, Lecture Notes in Artificial Intelligence Vol. 3683, 2005.

192. T. Ray and K.W. Won, "An evolutionary algorithm for constrained bi-objective optimization using radial slots", *Knowledge-Based Intelligent Information and Engineering Systems, Part 4, Proceedings*, Springer, pp. 49–56, Lecture Notes in Artificial Intelligence Vol. 3684, 2005.

193. X.F. Zou and L.S. Kang, "Fast annealing genetic algorithm for multi-objective optimization problems", *International Journal of Computer Mathematics*, Vol. 82, No. 8, pp. 931–940, August 2005.

194. L.F. Gonzalez, J. Périaux, K. Srinivas and E.J. Whitney, "Evolutionary Optimization Tools for Multi Objective Design in Aerospace Engineering: From Theory to MDO Applications", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 268–293, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

195. Jorge E. Núñez Mc Leod, "Sampling Methods in Evolutionary Computation: Assuring Genetic Diversity and Stochastic Selections", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 52–71, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

196. Zbigniew Michalewicz, "Evolutionary Algorithms in Engineering Optimization", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 26–51, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

197. Hisao Ishibuchi and Yusuke Nojima, "Performance Evaluation of Evolutionary Multiobjective Approaches to the Design of Fuzzy Rule-Based Ensemble Classifiers", in Nadia Nedjah, Luiza M. Mourelle, Marley M.B.R.

Vellasco, Ajith Abraham and Mario Köppen (editors), *Fifth International Conference on Hybrid Intelligent Systems (HIS'05)*, pp. 271–276, IEEE Computer Society, Los Alamitos, California, USA, November 2005 (**CONG INT**).

198. E.K. Burke and J.D. Landa Silva, "The influence of the fitness evaluation method on the performance of multiobjective search algorithms", *European Journal of Operational Research*, Vol. 169, No. 3, pp. 875–897, March 16, 2006.
199. Y.R. Zhou and J. He, "The convergence of a multi-objective evolutionary algorithm based on grids", *Advances in Natural Computation, Pt 2, Proceedings*, Springer, pp. 1015–1024, Lecture Notes in Computer Science Vol. 3611, 2005.
200. Y. Yun, M. Yoon and H. Nakayama, "Genetic algorithm for multi-objective optimization using GDEA", *Advances in Natural Computation, Pt 3, Proceedings*, Springer, pp. 409–416, Lecture Notes in Computer Science Vol. 3612, 2005.
201. Martin Trefzer, Jörg Langeheine, Karlheinz Meier and Johannes Schemmel, "Operational Amplifiers: An Example for Multi-objective Optimization on an Analog Evolvable Hardware Platform", in J. Manuel Moreno, Jordi Madrenas and Jordi Cosp (editors), *Evolvable Systems: From Biology to Hardware, 6th International Conference, ICES 2005*, pp. 86–97, Springer, Lecture Notes in Computer Science Vol. 3637, Sitges, Spain, September 2005.
202. C.S. Ong, H.J. Huang and G.H. Tzeng, "A novel hybrid model for portfolio selection", *Applied Mathematics and Computation*, Vol. 169, No. 2, pp. 1195–1210, October 15, 2005.
203. N. Zong and X. Hong, "Nonlinear channel equalizer design using directional evolutionary multi-objective optimization", *International Journal of Systems Science*, Vol. 36, No. 12, pp. 737–755, October 10, 2005.
204. N. Chakraborti, "Genetic algorithms in these changing steel times", *Ironmaking & Steelmaking*, Vol. 32, No. 5, pp. 401–404, October 2005.
205. A. Hadi and F. Rashidi, "Design of optimal power distribution networks using multiobjective genetic algorithm", *KI 2005: Advances in Artificial Intelligence*, Springer, pp. 203–215, Lecture Notes in Artificial Intelligence Vol. 3698, 2005.
206. Carlos Gomes da Silva, João Clímaco and José Figueira, "A scatter search method for bi-criteria {0,1}-knapsack problems", *European Journal of Operational Research*, Vol. 169, No. 2, pp. 373–391, March 1st, 2006.
207. C. Guria, M. Verma, S.K. Gupta and S.P. Mehrotra, "Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm", *International Journal of Mineral Processing*, Vol. 77, No. 3, pp. 165–185, November 2005.

208. Jessica Andrea Carballido, "Diseño de Algoritmos Evolutivos para Localización Inicial Óptima de Sensores en Plantas Industriales", PhD thesis, Universidad Nacional del Sur, Bahía Blanca, Argentina, 2005 (**TES DOC**).

209. Vincent Barichard, "Approches Hybrides Pour Les Problèmes Multiobjectif", PhD thesis, Laboratoire d'Etude et de Recherche en Informatique d'Angers, Université d'Angers, France, November 2003 (**TES DOC**).

210. C. Guria, P.K. Bhattacharya and S.K. Gupta, "Multi-objective optimization of reverse osmosis desalination units using different adaptations of the non-dominated sorting genetic algorithm (NSGA)", *Computers & Chemical Engineering*, Vol. 29, No. 9, pp. 1977–1995, August 15, 2005.

211. A. Gaspar-Cunha and J.C. Viana, "Using multi-objective evolutionary algorithms to optimize mechanical properties of injection molded part", *International Polymer Processing*, Vol. 20, No. 3, pp. 274–285, September 2005.

212. Oliver Giel, "Zur Analyse von randomisierten Suchheuristiken und Online-Heuristiken", PhD thesis, Universität Dormund, Germany, 2005 (**TES DOC**).

213. R. Kachhap and C. Guria, "Multi-objective optimization of a batch copoly(ethylene-polyoxyethylene terephthalate) reactor using different adaptations of non-dominated sorting genetic algorithm", *Macromolecular Theory and Simulations*, Vol. 14, No. 6, pp. 358–373, July 19, 2005.

214. Kalyanmoy Deb, Lothar Thiele, Marco Laumanns and Eckart Zitzler, "Scalable Test Problems for Evolutionary Multiobjective Optimization", in Ajith Abraham, Lakhmi Jain and Robert Goldberg (editors), *Evolutionary Multiobjective Optimization. Theoretical Advances and Applications*, pp. 105–145, Springer, USA, 2005 (**CAP LIB**).

215. T. Hanne and S. Nickel, "A multiobjective evolutionary algorithm for scheduling and inspection planning in software development projects", *European Journal of Operational Research*, Vol. 167, No. 3, pp. 663–678, December 16, 2005.

216. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

217. J.M. Herrero, X. Blasco, M. Martinez and C. Ramos, "Nonlinear robust identification with epsilon-GA: FPS under several norms simultaneously", in *Computational Intelligence and Bioinspired Systems. Proceedings*, pp. 993–1001, Springer-Verlag, Lecture Notes in Computer Science Vol. 3512, 2005.

218. F. Bellas, J.A. Becerra and R.J. Duro, "Evolution of cooperating ANNs through functional phenotypic affinity", in *Computational Intelligence and Bioinspired Systems. Proceedings*, Springer-Verlag, pp. 333–340, Lecture Notes in Computer Science Vol. 3512, 2005.

219. M.A. Panduro, D.H. Covarrubias, C.A. Brizuela and F.R. Marante, "A multi-objective approach in the linear antenna array design", *AEU-International*

Journal of Electronics and Communications, Vol. 59, No. 4, pp. 205–212, 2005.

220. A. Gaspar-Cunha, J.A. Covas and B. Vergnes, "Defining the configuration of co-rotating twin-screw extruders with multiobjective evolutionary algorithms", *Polymer Engineering and Science*, Vol. 45, No. 8, pp. 1159–1173, August 2005.
221. M.A. Martinez, J. Sanchis and X. Blasco, "Genetic algorithms for multiobjective controller design", in *Artificial Intelligence and Knowledge Engineering Applications: A Bioinspired Approach. Part 2. Proceedings*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3562, pp. 242–251, 2005.
222. Fabio Freschi and Maurizio Repetto, "Multiobjective Optimization by a Modified Artificial Immune System Algorithm", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 248–261, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005 (**CONG INT**).
223. K. Rodriguez-Vazquez and P.J. Fleming, "Evolution of mathematical models of chaotic systems based on multiobjective genetic programming", *Knowledge and Information Systems*, Vol. 8, No. 2, pp. 235–256, August 2005.
224. Matthieu Basseur, "Conception d'Algorithmes Coopératifs Pour L'Optimisation Multi-Objectif: Application aux Problèmes d'Ordonnancement de Type Flow-Shop", PhD thesis, Université des Sciences et Technologies de Lille, France, 2005 (in French) (**TES DOC**).
225. Jorge E. Rodríguez, Andrés L. Medaglia and Juan P. Casas, "Approximation to the Optimum Design of a Motorcycle Frame using Finite Element Analysis and Evolutionary Algorithms", in Ellen J. Bass (editor), *Proceedings of the 2005 IEEE Systems and Information Engineering Design Symposium*, IEEE Press, pp. 277–285, 2005.
226. N. Nariman-Zadeh, K. Atashkari, A. Jamali, A. Pilechi and X. Yao, "Inverse modelling of multi-objective thermodynamically optimized turbojet engines using GMDH-type neural networks and evolutionary algorithms", *Engineering Optimization*, Vol. 37, No. 5, pp. 437–462, July 2005.
227. J. Balicki, "Immune systems in multi-criterion evolutionary algorithm for task assignments in distributed computer system", *Advances in Web Intelligence*, Springer, Lecture Notes in Computer Science Vol. 3528, pp. 51–56, 2005.
228. I. Blecic, A. Cecchini and G.A. Trunfio, "A decision support tool coupling a causal model and a multi-objective genetic algorithm", *Innovations in Applied Intelligence*, Springer, Lecture Notes in Artificial Intelligence Vol. 3533, pp. 628–637, 2005.
229. O.L. Cetin and S. Saitou, "Decomposition-based assembly synthesis of multiple structures for minimum manufacturing cost", *Journal of Mechanical Design*, Vol. 127, No. 4, pp. 572–579, July 2005.

230. Y. Vidyakiran, B. Mahanty and N. Chakraborti, "A genetic-algorithms-based multiobjective approach for a three-dimensional guillotine cutting problem", *Materials and Manufacturing Processes*, Vol. 20, No. 4, pp. 697–715, 2005.

231. S.A. Mansouri, "Coordination of set-ups between two stages of a supply chain using multi-objective genetic algorithms", *International Journal of Production Research*, Vol. 43, No. 15, pp. 3163–3180, August 1, 2005 (**JOUR INT**).

232. Chung-Huei Chueh, "An Immune Algorithm for Engineering Optimization", PhD thesis, Department of Mechanical Engineering, Tatung University, Taipei, Taiwan, July 2004 (**TES DOC**).

233. Jorge E. Rodríguez, Andrés L. Medaglia and Juan P. Casas, "Approximation to the Optimum Design of a Motorcycle Frame using Finite Element Analysis and Evolutionary Algorithms", in Ellen J. Bass (editor), *2005 IEEE Systems & Information Engineering Design Symposium (SIEDS'05)*, Charlottesville, Virginia, USA, April 29, 2005 (**CONG INT**).

234. M. Laumanns and N. Laumanns, "Evolutionary multiobjective design in automotive development", *Applied Intelligence*, Vol. 23, No. 1, pp. 55–70, July 2005 (**JOUR INT**).

235. M. Mahfouf, M. Jamei and D.A. Linkens, "Optimal design of alloy steels using multiobjective genetic algorithms", *Materials and Manufacturing Processes*, Vol. 20, No. 3, pp. 553–567, 2005 (**JOUR INT**).

236. R. Nandan, R. Rai, R. Jayakanth, S. Moitra, N. Chakraborti and A. Mukhopadhyay, "Regulating crown and flatness during hot rolling: A multiobjective optimization study using genetic algorithms", *Materials and Manufacturing Processes*, Vol. 20, No. 3, pp. 459–478, 2005 (**JOUR INT**).

237. A. Kumar, D. Sahoo, S. Chakraborty and N. Chakraborti. "Gas injection in steelmaking vessels: Coupling a fluid dynamic analysis with a genetic algorithms-based pareto-optimality", *Materials and Manufacturing Processes*, Vol. 20, No. 3, pp. 363–379, 2005 (**JOUR INT**).

238. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

239. Rajeev Kumar, P.K. Singh and P.P. Chakrabarti, "Multiobjective EA Approach for Improved Quality of Solutions for Spanning Tree Problem", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 811–825, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

240. C. Romero, S. Ventura and P. De Bra, "Knowledge discovery with genetic programming for providing feedback to courseware authors", *User Mod-*

eling and User-Adapted Interaction, Vol. 14, No. 5, pp. 425–464, 2004 (**JOUR INT**).

241. Yaochu Jin, Bernhard Sendhoff and Edgar Körner, "Evolutionary Multi-objective Optimization for Simultaneous Generation of Signal-Type and Symbol-Type Representations", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 692–706, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
242. M. Galea, Q. Shen and J. Levine, "Evolutionary approaches to fuzzy modelling for classification", *Knowledge Engineering Review*, Vol. 19, No. 2, pp. 27–59, March 2004 (**JOUR INT**).
243. Naesung Lyu, "Decomposition-Based Assembly Synthesis Based on Structural Considerations", PhD thesis, The University of Michigan, USA, 2004 (**TES DOC**).
244. Frank Schlottmann, Andreas Mitschele and Detlef Seese, "A Multi-objective Approach to Integrated Risk Management", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 692–706, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
245. Jerzy Duda and Andrzej Osyczka, "Multiple Criteria Lot-Sizing in a Foundry Using Evolutionary Algorithms", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 651–663, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
246. M.R. Gholamian, S.M.T.F. Ghomi and M. Ghazanfari, "A hybrid systematic design for multiobjective market problems: a case study in crude oil markets", *Engineering Applications of Artificial Intelligence*, Vol. 18, No. 4, pp. 495–509, June 2005 (**JOUR INT**).
247. David Greiner, Gabriel Winter, José M. Emperador and Blas Galván, "Gray Coding in Evolutionary Multicriteria Optimization: Application in Frame Structural Optimum Design", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 576–591, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
248. Christian Igel, "Multi-objective Model Selection for Support Vector Machines", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 443–458, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

249. M.S. Osman, M.A. Abo-Sinna and M.K. El-Sayed, "An algorithm for solving multi-stage decision making model with multiple fuzzy goals based on genetic algorithms", *International Journal of Nonlinear Sciences and Numerical Simulation*, Vol. 5, No. 4, pp. 371–385, 2004 (**JOUR INT**).

250. P. Di Barba, "Multiobjective design optimisation: A microeconomics-inspired strategy applied to electromagnetics", *International Journal of Applied Electromagnetics and Mechanics*, Vol. 21, No. 2, pp. 101–117, 2005 (**JOUR INT**).

251. N. Lyu and K. Saitou, "Topology optimization of multicomponent beam structure via decomposition-based assembly synthesis", *Journal of Mechanical Design*, Vol. 127, No. 2, pp. 170–183, March 2005 (**JOUR INT**).

252. K.J. Kim and R.L. Smith, "Systematic procedure for designing processes with multiple environmental objectives", *Environmental Science & Technology*, Vol. 39, No. 7, pp. 2394–2405, April 1, 2005 (**JOUR INT**).

253. V. Cotik, R.R. Zaliz and I. Zwir, "A hybrid promoter analysis methodology for prokaryotic genomes", *Fuzzy Sets and Systems*, Vol. 152, No. 1, pp. 83–102, May 16, 2005 (**JOUR INT**).

254. Antonio J. Nebro, Francisco Luna and Enrique Alba, "New Ideas in Applying Scatter Search to Multiobjective Optimization", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 443–458, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

255. C. Guria, M. Verma, S.P. Mehrotra and S.K. Gupta, "Multi-objective optimal synthesis and design of froth flotation circuits for mineral processing, using the jumping gene adaptation of genetic algorithm", *Industrial & Engineering Chemistry Research*, Vol. 44, No. 8, pp. 2621–2633, April 13, 2005 (**JOUR INT**).

256. Hernán Aguirre and Kiyoshi Tanaka, "Selection, Drift, Recombination, and Mutation in Multiobjective Evolutionary Algorithms on Scalable MNK-Landscapes", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 355–369, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

257. Yusuke Nojima, Kaname Narukawa, Shiori Kaige and Hisao Ishibuchi, "Effects of Removing Overlapping Solutions on the Performance of the NSGA-II Algorithm", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 341–354, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

258. Hisao Ishibuchi and Kaname Narukawa, "Recombination of Similar Parents in EMO Algorithms", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 265–279, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

259. Juan Carlos Leyva-Lopez and Miguel Angel Aguilera-Contreras, "A Multiobjective Evolutionary Algorithm for Deriving Final Ranking from a Fuzzy Outranking Relation", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 235–249, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

260. Salem Adra, "Optimisation Techniques for Gas Turbine Engine Control Systems", Masters Thesis (Eng) in Advanced Software Engineering, Department of Computer Science, The University of Sheffield, UK, 27 August 2003 (**TES MAES**).

261. Carlos A. Brizuela and Everardo Gutiérrez, "Multi-objective Go with the Winners Algorithm: A Preliminary Study", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 206–220, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

262. Christian Haubelt, Jürgen Gamenik and Jürgen Teich, "Initial Population Construction for Convergence Improvement of MOEAs", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 191–205, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

263. Matthieu Basseur, Franck Seynhaeve and El-Ghazali Talbi, "Path Relinking in Pareto Multi-objective Genetic Algorithms", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 120–134, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

264. Adam Berry and Peter Vamplew, "The Combative Accretion Model–Multiobjective Optimisation Without Explicit Pareto Ranking", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 77–91, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

265. Michael Emmerich, Nicola Beume and Boris Naujoks, "An EMO Algorithm Using the Hypervolume Measure as Selection Criterion", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors),

Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005, pp. 62–76, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

266. N. Lyu and K. Saitou, "Decomposition-based assembly synthesis of a three-dimensional body-in-white model for structural stiffness", *Journal of Mechanical Design*, Vol. 127, No. 1, pp. 34–48, January 2005 (**JOUR INT**).
267. Peter Fleming, Robin C. Purshouse and Robert J. Lygoe, "Many-Objective Optimization: An Engineering Design Perspective", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 14–32, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
268. S. Afshin Mansouri, "A Multi-Objective Genetic Algorithm for mixed-model sequencing on JIT assembly lines", *European Journal of Operational Research*, Vol. 167, No. 3, pp. 696–716, 2005 (**JOUR INT**).
269. L. Samaniego and A. Bardossy, "Robust parametric models of runoff characteristics at the mesoscale", *Journal of Hydrology*, Vol. 303, Nos. 1-4, pp. 136–151, March 1, 2005 (**JOUR INT**).
270. R. Kumar, R.K. Singh and P.P. Chakrabarti, "Improved quality of solutions for multiobjective spanning tree problem using distributed evolutionary algorithm", *High Performance Computing - HIPC 2004*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3296, pp. 494–503, 2004 (**CONG INT**).
271. L. Luo, P.K. Kannan, B. Besharati and S. Azarm, "Design of robust new products under variability: Marketing meets design", *Journal of Product Innovation Management*, Vol. 22, No. 2, pp. 177–192, March 2005 (**JOUR INT**).
272. D.G. Mayer, B.P. Kinghorn and A.A. Archer, "Differential evolution - an easy and efficient evolutionary algorithm for model optimisation", *Agricultural Systems*, Vol. 83, No. 3, pp. 315–328, March 2005 (**JOUR INT**).
273. R.F. Coelho and P. Bouillard, "A multicriteria evolutionary algorithm for mechanical design optimization with expert rules", *International Journal for Numerical Methods in Engineering*, Vol. 62, No. 4, pp. 516–536, January 28, 2005 (**JOUR INT**).
274. S. Gunawan and S. Azarm, "Multi-objective robust optimization using a sensitivity region concept", *Structural and Multidisciplinary Optimization*, Vol. 29, No. 1, pp. 50–60, January 2005 (**JOUR INT**).
275. H. Aguirre and K. Tanaka, "Random bit climbers on multiobjective MNK-Landscapes: Effects of memory and population climbing", *IEICE Transactions on Fundamentals of Electronics Communications and Computer Sciences*, Vol. E88A, No. 1, pp. 334–345, January 2005 (**JOUR INT**).
276. Michael Guntsch, "Ant Algorithms in Stochastic and Multi-Criteria Environment", PhD thesis, Department of Economics and Business Engineering, University of Karlsruhe, Germany, 2004 (**TES DOC**).

277. S. O'Hagan, W.B. Dunn, M. Brown, J.D. Knowles and D.B. Kell, "Closed-loop, multiobjective optimization of analytical instrumentation: Gas chromatography/time-of-flight mass spectrometry of the metabolomes of human serum and of yeast fermentations", *Analytical Chemistry*, Vol. 77, No. 1, pp. 290–303, January 1, 2005 (**JOUR INT**).

278. H.L. Wang, S. Kwong, Y.C. Jin, W. Wei and K.F. Man, "Multi-objective hierarchical genetic algorithm for interpretable fuzzy rule-based knowledge extraction", *Fuzzy Sets and Systems*, Vol. 149, No. 1, pp. 149–186, January 1, 2005 (**JOUR INT**).

279. R. Kumar and P. Rockett, "Effective evolutionary multimodal optimization by multiobjective reformulation without explicit niching/sharing", *Applied Computing, Proceedings*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3285, pp. 1–8, 2004 (**CONG INT**).

280. D. Kim, "Evolving internal memory for T-maze tasks in noisy environments", *Connection Science*, Inglaterra, Vol. 16, No. 3, pp. 183–210, September 2004 (**JOUR INT**).

281. Sally Evans and Ian Fletcher, "A Variation on a Memetic Algorithm for Boiler Scheduling", in Lothar Hotz and Thorsten Krebs (Editors), *Proceedings of Workshop Planen und Konfigurieren (PuK-2003)*, Jahrestagung Künstliche Intelligenz 2003 (KI-2003), Hamburg, Germany, September 2003 (**CONG INT**).

282. M. Farina and P. Amato, "Linked interpolation-optimization strategies for multicriteria optimization problems", *Soft Computing–A Fusion of Foundations, Methodologies and Applications*, Springer-Verlag, Vol. 9, No. 1, pp. 54–65, January 2005 (**JOUR INT**).

283. Jian-Hung Chen, "Theory and Applications of Efficient Multi-Objective Evolutionary Algorithms", PhD thesis, Department of Information Engineering and Computer Science, Feng Chia University, Taichung, Taiwan, R.O.C., 2004 (**TES DOC**).

284. Taghi M. Khoshgoftaar, Yi Liu and Naeem Seliya, "A Multiobjective Module-Order Model for Software Quality Enhancement", *IEEE Transactions on Evolutionary Computation*, Estados Unidos, Vol. 8, No. 6, pp. 593–608, December 2004 (**JOUR INT**).

285. A.G.D. Garza, A.P.T.C. Licastro and R.M.O. Justo, "A hybrid knowledge-based and evolutionary process model of airport gate scheduling", *International Journal of Uncertainty Fuzziness and Knowledge-Based Systems*, Singapur, Vol. 12, pp. 43–61, Suppl. S., October 2004 (**JOUR INT**).

286. Stanislaw Krenich and Andrzej Osyczka, "Optimal Design of Multiple Clutch Brakes Using a Multistage Evolutionary Method", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 219–228, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).

287. S. Gunawan, A. Farhang-Mehr and S. Azarm, "On maximizing solution diversity in a multiobjective multidisciplinary genetic algorithm for design optimization", *Mechanics Based Design of Structures and Machines*, Estados Unidos, Vol. 32, No. 4, pp. 491–514, November 2004 (**JOUR INT**).

288. Naesung Lyu and Kazuhiro Saitou, "Decomposition-Based Assembly Synthesis of a 3D Body-in-White Model for Structural Stiffness", in *Proceedings of the 2003 ASME International Mechanical Engineering Congress (IMECE'03)*, Washington, D.C., November 15–21, 2003 (**CONG INT**).

289. Grzegorz Dobrowolski and Marek Kisiel-Dorhinicki, "Management of Evolutionary MAS for Multiobjective Optimisation", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 81–90, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).

290. Jürgen Branke and Kalyanmoy Deb, "Integrating User Preferences into Evolutionary Multi-Objective Optimization", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 461–477, Berlin Heidelberg, 2005, ISBN 3-540-22902-7, página 462 (**CAP LIB**).

291. Gisele Lobo Pappa, "Seleção de Atributos Utilizando Algoritmos Genéticos Multiobjetivos", Masters thesis, Pontifícia Universidade Católica do Paraná, Curitiba, Brazil, 2002 (In Portuguese) (**TES MAES**).

292. Hussein A. Abbass, "An Inexpensive Cognitive Approach for Biobjective Optimization using Bliss Points and Interaction", in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 712–721, September 2004 (**CONG INT**).

293. Frank Schlottmann and Detlef Seese, "A hybrid heuristic approach to discrete multi-objective optimization of credit portfolios", *Computational Statistics & Data Analysis*, Holanda, Vol. 47, No. 2, pp. 373–399, September 1, 2004 (**JOUR INT**).

294. Tatsuya Okabe, Yaochu Jin, Markus Olhofer and Bernhard Sendhoff, "On Test Functions for Evolutionary Multi-Objective Optimization", in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 792–802, September 2004 (**CONG INT**).

295. Jürgen Branke, Kalyanmoy Deb, Henning Dierolf and Matthias Osswald, "Finding knees in multi-objective optimization", in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 722–731, September 2004 (**CONG INT**).

296. Tapio Tyni and Jari Ylinen, "Evolutionary Bi-objective Controlled Elevator Group Regulates Passenger Service Level and Minimises Energy Consumption", in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 822–831, September 2004 (**CONG INT**).

297. Kalyanmoy Deb, “An Ideal Evolutionary Multi-Objective Optimization Procedure”, *IPSJ Transactions on Mathematical Modeling and Its Applications*, Vol. 45, No. SIG 2 (TOM 10), pp. 1–11, February 2004 (**JOUR INT**).

298. Eckart Zitzler and Simon Künzli, “Indicator-based Selection in Multiobjective Search”, in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 832–842, September 2004 (**CONG INT**).

299. Xiufen Zou, Minzhong Liu, Lishan Kang and Jun He, “A high performance multi-objective evolutionary algorithm based on the principles of thermodynamics”, in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 922–931, September 2004 (**CONG INT**).

300. E.F. Khor, K.C. Tan and Y.J. Yang, “An Evolutionary Algorithm with Tabu Restriction and Heuristic Reasoning for Multiobjective Optimization”, in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 255–277, Berlin Heidelberg, 2005, ISBN 3-540-22902-7, página 256 (**CAP LIB**).

301. Yan Zhang, Kus Hidajat and Ajay K. Ray, “Optimal design and operation of SMB bioreactor: production of high fructose syrup by isomerization of glucose”, *Biochemical Engineering Journal*, Suiza, Vol. 21, No. 2, pp. 111–121, October 2004 (**JOUR INT**).

302. J. Ku, X.J. Feng and H. Rabitz, “Closed-loop learning control of bio-networks”, *Journal of Computational Biology*, Estados Unidos, Vol. 11, No. 4, pp. 642–659, 2004 (**JOUR INT**).

303. Carlos García-Martinez, Oscar Cordón and Francisco Herrera, “An Empirical Analysis of Multiple Objective Ant Colony Optimization Algorithms for the Bi-criteria TSP”, in Marco Dorigo, Mauro Birattari, Christian Blum, Luca M. Gambardella, Francesco Mondada and Thomas Stützle (editors), *Proceedings of the 4th International Workshop on Ant Colony Optimization and Swarm Intelligence, ANTS 2004*, Bélgica, Springer, Lecture Notes in Computer Science, Vol. 3172, pp. 61–72, 2004 (**CONG INT**).

304. Avishai Ceder, “Designing Public Transport Networks and Routes”, in William H.K. Lam and Michael G.H. Bell (editors), *Advanced Modeling for Transit Operations and Service Planning*, Chapter 3, Pergamon, pp. 59–91, UK, 2003, ISBN 0-08-044206-4, página 67. (**CAP LIB**).

305. Zbigniew Michalewicz and David B. Fogel, “How to Solve It: Modern Heuristics”, Springer, Second, Revised and Extended Edition, Berlin, 2004, ISBN 3-540-22494-7, página 458 (**LIB ING**).

306. M.G. Ippolito, E. Riva Sanseverino and F. Vuinovich, “Multiobjective Ant Colony Search Algorithm For Optimal Electrical Distribution System Strategical Planning”, in *2004 Congress on Evolutionary Computation (CEC’2004)*, IEEE Service Center, Vol. 2, pp. 1924–1931, Portland, Oregon, USA, June 2004 (**CONG INT**).

307. Matthias Ehrgott and Xavier Gandibleux, "Approximative Solution Methods for Multiobjective Combinatorial Optimization", *Top*, España, Vol. 12, No. 1, pp. 1–89, June 2004 (**JOUR INT**).

308. Tatsuya Okabe, "Evolutionary Multi-Objective Optimization - On the Distribution of Offspring in Parameter and Fitness Space -", PhD thesis, Bielefeld University, Germany, 2004 (**TES DOC**).

309. Tatsuya Okabe, Yaochu Jin, Bernhard Sendhoff and Markus Olhofer, "Voronoi-based Estimation of Distribution Algorithm for Multi-objective Optimization", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1594–1601, Portland, Oregon, USA, June 2004 (**CONG INT**).

310. Jianjun Hu and Erik Goodman, "Wireless Access Point Configuration by Genetic Programming", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 1178–1184, Portland, Oregon, USA, June 2004 (**CONG INT**).

311. D. Greiner, J.M. Emperador and G. Winter, "Single and multiobjective frame optimization by evolutionary algorithms and the auto-adaptive rebirth operator", *Computer Methods in Applied Mechanics and Engineering*, Suiza, Vol. 193, Nos. 33–35, pp. 3711–3743, 2004 (**JOUR INT**).

312. R.B. Kasat and S.K. Gupta, "Multi-objective optimization of an industrial fluidized-bed catalytic cracking unit (FCCU) using genetic algorithm (GA) with the jumping genes operator", *Computers & Chemical Engineering*, Inglaterra, Vol. 27, No. 12, pp. 1785–1800, December 15, 2003 (**JOUR INT**).

313. Yeboon Yun, Hirotaka Nakayama and Masao Arakawa, "Fitness Evaluation using Generalized Data Envelopment in MOGA", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 464–471, Portland, Oregon, USA, June 2004 (**CONG INT**).

314. Hernán E. Aguirre and Kiyoshi Tanaka, "Effects of Elitism and Population Climbing on Multiobjective MNK-Landscapes", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 449–456, Portland, Oregon, USA, June 2004 (**CONG INT**).

315. Mario Köppen, Katrin Franke and Bertram Nickolay, "Fuzzy-Pareto-Dominance Driven Multiobjective Genetic Algorithm", in *Proceedings of the 10th IFSA World Congress (IFSA 2003)*, pp. 450–453, Istanbul, Turkey, June 2003 (**CONG INT**).

316. Mario Köppen, "On the Benchmarking of Multiobjective Optimization Algorithm", in Vasile Palade, Robert J. Howlett and Lakhmi C. Jain (editors), *Proceedings of the 7th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES 2003). Part I*, pp. 379–385, Springer-Verlag. Lecture Notes on Computer Science Vol. 2773, Oxford, UK, September 2003 (**CONG INT**).

317. K.E. Parsopoulos, D.K. Taoulis, N.G. Pavlidis, V.P. Plagianakos and M.N. Vrahatis, "Vector Evaluated Differential Evolution for Multiobjective Optimization", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 204–211, Portland, Oregon, USA, June 2004 (**CONG INT**).

318. Hernán E. Aguirre, Masahiko Sato and Kiyoshi Tanaka, "Preliminary Study on the Performance of Multi-objective Evolutionary Algorithms with MNK-Landscapes", in *Proceedings of the 2004 RISP International Workshop on Nonlinear Circuits and Signal Processing (NCSP 2004)*, pp. 315–318, The Research Institute of Signal Processing Japan, Hawaii, USA, March 2004 (**CONG INT**).

319. Hiroyuki Sato, Hernán E. Aguirre and Kiyoshi Tanaka, "Enhanced Multi-objective Evolutionary Algorithms Using Local Dominance", in *Proceedings of the 2004 RISP International Workshop on Nonlinear Circuits and Signal Processing (NCSP 2004)*, pp. 319–322, The Research Institute of Signal Processing Japan, Hawaii, USA, March 2004 (**CONG INT**).

320. Hiroyuki Sato, Hernán E. Aguirre and Kiyoshi Tanaka, "Local Dominance Using Polar Coordinates to Enhance Multiobjective Evolutionary Algorithms", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 188–195, Portland, Oregon, USA, June 2004 (**CONG INT**).

321. Eric M. Koper, William D. Wood and Stephen W. Schneider, "Aircraft antenna coupling minimization using genetic algorithms and approximations", *IEEE Transactions on Aerospace and Electronic Systems*, Estados Unidos, Vol. 40, No. 2, pp. 742–751, April 2004 (**JOUR INT**).

322. J. Mehnen, T. Micheltisch, T. Bartz-Beielstein and K. Schmitt, "Evolutionary optimization of mould temperature control strategies: encoding and solving the multiobjective problem with standard evolution strategy and kit for evolution algorithms", *Proceedings of the Institution of Mechanical Engineers Part B—Journal of Engineering Manufacture*, Inglaterra, Vol. 218, No. 6, pp. 657–665, June 2004 (**JOUR INT**).

323. F. Bellas y R.J. Duro, "Algoritmo Evolutivo Basado en Afinidad para la Extracción de Primitivas", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 555–561, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).

324. F. Jiménez, G. Sánchez y A.F. Gómez-Skarmeta, "Optimización Difusa basada en Algoritmos Evolutivos Multi-objetivo", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 416–421, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).

325. Antonio J. Nebro, Enrique Alba y Francisco Luna, "Optimización Multi-Objetivo y Computación Grid", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 365–372, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).

326. Karim Hamza and Kazuhiro Saitou, "Optimization of Constructive Solid Geometry Via a Tree-Based Multi-objective Genetic Algorithm", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part II*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 981–992, Seattle, Washington, USA, June 2004 (**CONG INT**).

327. Hisao Ishibuchi and Shiori Kaige, "Implementation of Simple Multiobjective Memetic Algorithms and Its Application to Knapsack Problems", *International Journal of Hybrid Intelligent Systems*, Australia, Vol. 1, pp. 22–35, 2004 (**JOUR INT**).

328. Gerulf K.M. Pedersen and David E. Goldberg, "Dynamic Uniform Scaling for Multiobjective Genetic Algorithms", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part II*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 11–23, Seattle, Washington, USA, June 2004 (**CONG INT**).

329. Jerzy Balicki, "Multi-criterion Evolutionary Algorithm with Model of the Immune System to Handle Constraints for Task Assignments", in Leszek Rutkowski, Jörg H. Siekmann, Ryszard Tadeusiewicz and Lotfi A. Zadeh (Editors), *Artificial Intelligence and Soft Computing - ICAISC 2004, 7th International Conference. Proceedings*, Springer. Lecture Notes in Computer Science Vol. 3070, pp. 394–399, Zakopane, Poland, June 2004 (**CONG INT**).

330. Hisao Ishibuchi and Youhei Shibata, "Mating Scheme for Controlling the Diversity-Convergence Balance for Multiobjective Optimization", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 1259–1271, Seattle, Washington, USA, June 2004 (**CONG INT**).

331. Hisao Ishibuchi and Kaname Narukawa, "Some Issues on the Implementation of Local Search in Evolutionary Multiobjective Optimization", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 1246–1258, Seattle, Washington, USA, June 2004 (**CONG INT**)

332. Cristóbal Romero Morales, Sebastián Ventura Soto and Carlos de Castro Lozano, "Algoritmos Evolutivos para Descubrimiento de Reglas de

Predicción en la Mejora de Sistemas Educativos Adaptativos basados en Web", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 246–253, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).

333. F. de Toro, J. Ortega and B. Paechter, "Parallel Single Front Genetic Algorithm: Performance Analysis in a cluster system", in *Proceedings of the International Parallel and Distributed Processing Symposium (IPDPS'03)*, Francia, IEEE Computer Society, April 2003 (**CONG INT**).

334. Hernán Peraza Vázquez, "Desarrollo de un Algoritmo Genético para la Indexación de Patrones de Difracción de Rayos X: Un Problema Multi-Objetivo", Tesis de Maestría, División de Estudios de Posgrado e Investigación, Instituto Tecnológico de Ciudad Madero, Cd. Madero, Tamaulipas, México, Marzo de 2004 (**TES MAES**).

335. Julien Frey, Robin Gras, Patricia Hernandez and Ron Appel, "A hierarchical model of parallel genetic programming applied to bioinformatic problems", in Roman Wyrzykowski, Jack Dongarra, Marcin Paprzycki et al. (editors) *Parallel Processing and Applied Mathematics: 5th International Conference (PPAM 2003)*, Polonia, Springer, Lecture Notes in Computer Science Vol. 3019, pp. 1146–1153, 2003 (**CONG INT**).

336. A. Jaszkiewicz, "On the computational efficiency of multiple objective metaheuristics. The knapsack problem case study", *European Journal of Operational Research*, Holanda, Vol. 158, No. 2, pp. 418–433, October 16, 2004 (**JOUR INT**).

337. P. Morillo, J.M. Orduña and M. Fernández, "A comparison study of evolutive algorithms for solving the partitioning problem in distributed virtual environment systems", *Parallel Computing*, Holanda, Vol. 30, Nos. 5–6, pp. 585–610, May-June 2004 (**JOUR INT**).

338. F. de Negro, J. Ortega, E. Ros, S. Mota, B. Paechter and J.M. Martín, "PSFGA: Parallel processing and evolutionary computation for multiobjective optimisation", *Parallel Computing*, Holanda, Vol. 30, Nos. 5–6, pp. 721–739, May-June 2004 (**JOUR INT**).

339. B.J. Ross and H. Zhu, "Procedural texture evolution using multi-objective optimization", *New Generation Computing*, Estados Unidos, Vol. 22, No. 3, pp. 271–293, 2004 (**JOUR INT**).

340. Enrique Dunn and Gustavo Olague, "Multi-objective Sensor Planning for Efficient and Accurate Object Reconstruction", in Günther R. Raidl et al. (editors), *Applications of Evolutionary Computing. Proceedings of Evoworkshops 2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, and EvoSTOC*, Springer. Lecture Notes in Computer Science, Volume 3005, pp. 312–321, Coimbra, Portugal, April 2004 (**CONG INT**).

341. M.I. Hussein, K. Hamza, G.M. Hulbert, R.A. Scott and K. Saitou, "Design of Layered Structures with Desired Dispersion Properties Using a Multi-objective Genetic Algorithm", in *Proceedings of the Cairo University of Mechanical Design and Production, MDP-8*, Cairo University, pp. 41–50, Cairo, Egypt, January 2004 (**CONG INT**).

342. Thomas A. White and Douglas B. Kell, "Comparative genomic assessment of novel broad-spectrum targets for antibacterial drugs", *Comparative and Functional Genomics*, Inglaterra, Vol. 5, pp. 304–327, 2004 (**JOUR INT**).

343. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

344. Min Liu, "Development of Multiobjective Optimization Procedures for Seismic Design of Steel Moment Frame Structures", PhD thesis, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES DOC**).

345. John R. Koza, Martin A. Keane and Matthew J. Streeter, "Routine High-Return Human-Competitive Evolvable Hardware", in Ricardo S. Zebulum, David Gwaltney, Gregory Hornby, Didier Keymeulen, Jason Lohn and Adrian Stoica (editors), *Proceedings of the 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 3–17, IEEE Computer Society, Los Alamitos, California, June 2004 (**CONG INT**).

346. Venkat Devireddy and Patrick Reed, "An Efficient Design Methodology for the Nondominated Sorted Genetic Algorithm-II", in James Foster (editor), *2003 Genetic and Evolutionary Computation Conference. Late-Breaking Papers*, pp. 67–71, AAAI, Chicago, Illinois, USA, July 2003 (**CONG INT**).

347. Wei-Chun Chang, Alistair Sutcliffe and Richard Neville, "A Distance Function-Based Multi-Objective Evolutionary Algorithm", in James Foster (editor), *2003 Genetic and Evolutionary Computation Conference. Late-Breaking Papers*, pp. 47–53, AAAI, Chicago, Illinois, USA, July 2003 (**CONG INT**).

348. Guan-Chun Luh and Chung-Huei Chueh, "Multi-objective optimal design of truss structure with immune algorithm", *Computers & Structures*, Inglaterra, Vol. 82, Nos. 11–12, pp. 829–844, May 2004 (**JOUR INT**).

349. Dirk Büche, "Multi-Objective Evolutionary Optimization of Gas Turbine Components", PhD thesis, Swiss Federal Institute of Technology. Zürich, Switzerland, 2003 (**TES DOC**).

350. Jason T.W. Teo, "Pareto Multi-Objective Evolution of Legged Embodied Organisms", PhD thesis, School of Computer Science, University of New South Wales, Australia, 2003 (**TES DOC**).

351. António Gaspar-Cunha and José A. Covas, "RPSGAe–Reduced Pareto Set Genetic Algorithm: Application to Polymer Extrusion", in Xavier Gandibleux, Marc Sevaux, Kenneth Sörensen and Vincent T'kindt (editors), *Metaheuristics for Multiobjective Optimisation*, pp. 221–249, Springer. Lecture Notes

in Economics and Mathematical Systems Vol. 535, Berlin, 2004 (**CONG INT**).

352. Alvaro Gomes, Carlos Henggeler Antunes and Antonio Gomes Martins, "Dealing with solution diversity in an EA for multiple objective decision support - A case study", in Jens Gottlieb and Günter R. Raidl (editors), *Evolutionary Computation in Combinatorial Optimization, Proceedings of the 4th European Conference, EvoCOP 2004*, Springer, pp. 104–113, Lecture Notes in Computer Science, Vol. 3004, April 2004 (**CONG INT**).

353. Wilfredo Falcón Urquiaga, "Optimización de Diseños sobre FPGAs e Implementación Paralela de Decodificador para LDPC", Tesis Doctoral, Mondragon Unibertsitatea, España, Mayo de 2004 (**TES DOC**).

354. J. Dario Landa Silva, Edmund K. Burke and Sanja Petrovic, "An Introduction to Multiobjective Metaheuristics for Scheduling and Timetabling", in Xavier Gandibleux, Marc Sevaux, Kenneth Sörensen and Vincent T'kindt (editors), *Metaheuristics for Multiobjective Optimisation*, pp. 91–129, Springer. Lecture Notes in Economics and Mathematical Systems Vol. 535, Berlin, 2004 (**CONG INT**).

355. Andrzej Jaszkiewicz, "Evaluation of Multiple Objective Metaheuristics", in Xavier Gandibleux, Marc Sevaux, Kenneth Sörensen and Vincent T'kindt (editors), *Metaheuristics for Multiobjective Optimisation*, pp. 65–89, Springer. Lecture Notes in Economics and Mathematical Systems Vol. 535, Berlin, 2004 (**CONG INT**).

356. Eckart Zitzler, Marco Laumanns and Stefan Bleuler, "A Tutorial on Evolutionary Multiobjective Optimization", in Xavier Gandibleux, Marc Sevaux, Kenneth Sörensen and Vincent T'kindt (editors), *Metaheuristics for Multiobjective Optimisation*, pp. 3–37, Springer. Lecture Notes in Economics and Mathematical Systems Vol. 535, Berlin, 2004 (**CONG INT**).

357. Ali Farhang-Mehr, "Entropy Approach to Meta-Modeling, Multi-Objective Genetic Algorithm, and Quality Assessment of Solution Sets for Design Optimization", PhD thesis, Department of Mechanical Engineering, University of Maryland, College Park, Maryland, USA, 2003 (**TES DOC**).

358. J. Duggan, J. Byrne and G.J. Lyons, "A task allocation optimizer for software construction", *IEEE Software*, Estados Unidos, Vol. 21, No. 3, pp. 76–82, May-June 2004 (**JOUR INT**).

359. K.E. Parsopoulos, D.K. Tasoulis and M.N. Vrahatis, "Multiobjective Optimization Using Parallel Vector Evaluated Particle Swarm Optimization", in *Proceedings of the IASTED International Conference on Artificial Intelligence and Applications (AIA 2004)*, pp. 823-828, Vol. 2, ACTA Press, Innsbruck, Austria, February 2004, ISBN 0-88986-375-X (**CONG INT**).

360. L.A. Welser, R.C. Mancini, J.A. Koch, N. Izumi, H. Dalhed, H. Scott, T.W. Barbee, R.W. Lee, I.E. Golovkin, F. Marshall, J. Delettrez and L. Klein, "Analysis of the spatial structure of inertial confinement fusion implosion cores at OMEGA", *Journal of Quantitative Spectroscopy & Ra-*

diative Transfer, Inglaterra, Vol. 81, Nos. 1–4, pp. 487–497, September-November 2003 (**JOUR INT**).

361. Jesus Dario Landa Silva, "Metaheuristic and Multiobjective Approaches for Space Allocation", PhD thesis, School of Computer Science and Information Technology, University of Nottingham, UK, November 2003 (**TES DOC**).
362. Matthieu Basseur, Julien Lemesre, Clarisse Dhaenens and El-Ghazali Talbi, "Cooperation between Branch and Bound and Evolutionary Approaches to Solve a Bi-objective Flow Shop Problem", in *Proceedings of the Third International Workshop on Experimental and Efficient Algorithms (WEA'04)*, pp. 72–86, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3059, Angra dos Reis, Brazil, May 2004 (**CONG INT**).
363. Matthieu Basseur, Franck Seynhaeve and El-Ghazali Talbi, "Adaptive mechanisms for multi-objective evolutionary algorithms", in *IMACS multiconference, Computational Engineering in Systems Applications (CESA'03)*, paper S3-R-00-222, IEEE Service Center, Piscataway, New Jersey, July 2003 (**CONG INT**).
364. Marco Laumanns, "Analysis and Applications of Evolutionary Multiobjective Optimization Algorithms", PhD thesis, Swiss Federal Institute of Technology, Zurich, Switzerland, 2003 (**TES DOC**).
365. Nazan Khan, "Bayesian Optimization Algorithms for Multiobjective and Hierarchically Difficult Problems", Master's Thesis, Graduate College of the University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES MAES**).
366. A. Suppapitnarm, G.T. Parks, K. Shea and P.J. Clarkson, "Conceptual Design of Bicycle Frames by Multiobjective Shape Annealing", *Engineering Optimization*, Vol. 36, No. 2, pp. 165–188, April 2004 (**JOUR INT**).
367. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).
368. Marco Laumanns, Lothar Thiele and Eckart Zitzler, "Running Time Analysis of Multiobjective Evolutionary Algorithms on Pseudo-Boolean Functions", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 2, pp. 170–182, April 2004 (**JOUR INT**).
369. W.F. Yu and K. Hidajat and A.K. Ray, "Application of multiobjective optimization in the design and operation of reactive SMB and its experimental verification", *Industrial & Engineering Chemistry Research*, Estados Unidos, Vol. 42, No. 26, pp. 6823–6831, December 24, 2003 (**JOUR INT**).
370. P.M. Grignon and G.M. Fadel, "A GA based configuration design optimization method", *Journal of Mechanical Design*, Estados Unidos, Vol. 126, No. 1, pp. 6–15, January 2004 (**JOUR INT**).

371. Francisco Aparisi and J. Carlos García-Díaz, "A Multiobjective Optimization for the EWMA and MEWMA Quality Control Charts", in *Proceedings of Inverse Problems, Design and Optimization Symposium (IPDO'2004)*, Rio de Janeiro, Brazil, March 17-19, 2004 (**CONG INT**).

372. M. Stan and B. Reardon, "A Bayesian approach to evaluating the uncertainty of thermodynamic data and phase diagrams", *Calphad–Computer Coupling of Phase Diagrams and Thermochemistry*, Inglaterra, Vol. 27, No. 3, pp. 319–323, September 2003 (**JOUR INT**).

373. Tatsuya Okabe, Yaochu Jin and Bernhard Sendhoff, "Evolutionary Multi-Objective Optimisation with a Hybrid Representation", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 4, pp. 2262–2269, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

374. Hisao Ishibuchi and Shiori Kaige, "Effects of Repair Procedures on the Performance of EMO Algorithms for Multiobjective 0/1 Knapsack Problems", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 4 pp. 2254–2261, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

375. K. Ghali and O. Hammami, "Embedded Processor Characteristics Specification Through Multiobjective Evolutionary Algorithms", in *Proceedings of the IEEE International Symposium on Industrial Electronics (ISIE'03)*, Brasil, Vol. 2, pp. 907–912, IEEE, June, 2003 (**CONG INT**).

376. Robin Charles Purshouse, "On the Evolutionary Optimisation of Many Objectives", PhD thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, September 2003 (**TES DOC**).

377. K.C. Tan, T.H. Lee, Y.H. Chew and L.H. Lee, "A Hybrid Multiobjective Evolutionary Algorithm For Solving Truck and Trailer Vehicle Routing Problems", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2134–2141, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

378. Hussein A. Abbass, "Pareto Neuro-Evolution: Constructing Ensemble of Neural Networks Using Multi-objective Optimization", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2074–2080, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

379. Robin C. Purshouse and Peter J. Fleming, "Evolutionary Multi-Objective Optimisation: An Exploratory Analysis", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2066–2073, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

380. Vasilios A. Spais and Loukas P. Petrou, "Multiobjective Motion Planning for a Nonholonomic Vehicle", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2058–2065, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

381. Francisco Javier Bellas Bouza, "MDB: Mecanismo Cognitivo Darwinista para Agentes Autónomos", PhD thesis, Facultad de Informática, Departamento de Computación, Universidad de la Coruña, Julio de 2003 (**TES DOC**).

382. Yaochu Jin and Bernhard Sendhoff, "Connectedness, Regularity and the Success of Local Search in Evolutionary Multi-objective Optimization", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1910–1917, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

383. Yi Liu, "Software Reliability Engineering with Genetic Programming", PhD thesis, Florida Atlantic University, Boca Raton, Florida, August 2003 (**TES DOC**).

384. A.E. Eiben and J.E. Smith, "Introduction to Evolutionary Computing", Springer-Verlag, Berlin, 2003, ISBN 3-540-40184-9, página 166 (**LIB ING**).

385. H. Ishibuchi and T. Yamamoto, "Interpretability issues in fuzzy genetics-based machine learning for linguistic modelling", in *Modelling with Words: Learning, Fusion, and Reasoning within a Formal Linguistic Representation Framework*, Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 2873, pp. 209–228, 2003 (**CONG INT**).

386. R. Kumar, "Multicriteria network design using distributed evolutionary algorithm", in *High Performance Computing—HIPC 2003*, India, Springer-Verlag, Lecture Notes in Computer Science, Vol. 2913, pp. 343–352, 2003 (**CONG INT**).

387. Yezid Donoso Meisel, Ramon Fabregat and Lluis Fàbrega, "Multi-Objective Scheme over Multi-Tree Routing in Multicast MPLS Networks", in *Proceedings of the IFIP/ACM Latin America Networking Conference 2003 (LANC03)*, ACM Press, La Paz, Bolivia, October 3-5, 2003 (**CONG INT**).

388. J.P. Arias, J. Hernández, J. Martín and A. Suárez, "Bayesian Robustness with Quantile Loss Functions, in *Proceedings of the Third International Symposium on Imprecise Probabilities and Their Applications (ISIPTA'03)*, pp. 16–30, Carleton Scientific Proceedings in Informatics, Lugano, Switzerland, July 2003 (**CONG INT**).

389. Shengwu Xiong and Weiwu Wang, "A New Hybrid Structure Genetic Programming in Symbolic Regression", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1500–1506, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**)

390. Hussein A. Abbass, "Pareto neuro-ensembles", *AI 2003: Advances in Artificial Intelligence*, Australia, Lecture Notes in Artificial Intelligence, Vol 2903, pp. 554–566, 2003 (**CONG INT**).

391. O. Cordon, F. Gomide, F. Herrera, F. Hoffmann and L. Magdalena, "Ten years of genetic fuzzy systems: current framework and new trends", *Fuzzy Sets and Systems*, Holanda, Vol. 141, No. 1, pp. 5–31, January 1, 2004 (**JOUR INT**).

392. Tatsuya Okabe, Yaochu Jin and Bernhard Sendhoff, "A Critical Survey of Performance Indices for Multi-Objective Optimization", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 878–885, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

393. Onur L. Cetin, "Decomposition-Based Assembly Synthesis of Family of Structures", PhD Thesis, Department of Mechanical Engineering, The University of Michigan, Ann Arbor, Michigan, December 2003 (**TES DOC**).

394. Patrick Reed, Barbara S. Minsker and David E. Goldberg, "Simplifying multiobjective optimization: An automated design methodology for the nondominated sorted genetic algorithm-II", *Water Resources Research*, Vol. 39, No. 7, Art. No. 1196, July 30, 2003 (**JOUR INT**).

395. Els Ducheyne, "Multiple objective forest management using GIS and genetic optimisation techniques", PhD Thesis, Faculty of Agricultural and Applied Biological Sciences, Univerisity of Ghent, Belgium, September 2003 (**TES DOC**).

396. Aaron Hula, Kiumars Jalali, Karim Hamza, Steven J. Skerlos and Kazuhiro Saitou, "Multi-criteria Decision-Making for Optimization of Product Disassembly under Multiple Situations", *Environmental Science & Technology*, Estados Unidos, Vol. 37, No. 23, pp. 5303–5313, December 1, 2003 (**JOUR INT**).

397. Jason Teo and Hussein A. Abbass, "Elucidating the Benefits of A Self-Adaptive Pareto EMO Approach for Evolving Legged Locomotion in Artificial Creatures", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 755–762, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

398. Tatsuya Okabe, Kwasi Foli, Markus Olhofer, Yaochu Jin and Bernhard Sendhoff, "Comparative Studies on Micro Heat Exchanger Optimization", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 1, pp. 647–654, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

399. R. Cela, J.A. Martinez, C. Gonzalez-Barreiro and M. Lores, "Multi-objective optimisation using evolutionary algorithms: its application to HPLC separations", *Chemometrics and Intelligent Laboratory Systems*, Holanda, Vol. 69, Nos. 1-2, pp. 137–156, November 28, 2003 (**JOUR INT**).

400. Eduardo Fernández and Rafael Olmedo, "An improved method for deriving final ranking from a fuzzy preference relation via multiobjective optimization", *Foundations of Computing and Decision Sciences*, Polonia, Vol. 28, No. 3, pp. 143–157, 2003 (**JOUR INT**)

401. Kalyanmoy Deb, "Unveiling innovative design principles by means of multiple conflicting objectives", *Engineering Optimization*, Inglaterra, Vol. 35, No. 5, pp. 445–470, October 2003 (**JOUR INT**).

402. Xiong Shengwu, Wang Weiwu and Li Feng, "A New Genetic Programming Approach in Symbolic Regression", *Proceedings of the Fifteenth International Conference on Tools with Artificial Intelligence (ICTAI 03)*, pp. 161–165, IEEE Computer Society, Sacramento, California, Noviembre de 2003 (**CONG INT**).

403. W.M. Chen, H.K. Hwang and T.H. Tsai, "Efficient maxima-finding algorithms for random planar samples", *Discrete Mathematics and Theoretical Computer Science*, Francia, Vol. 6, No. 1, pp. 107–122, 2003 (**JOUR INT**).

404. R. Gras, D. Hernandez, P. Hernandez, N. Zangger, Y. Mescam, J. Frey, O. Martin, J. Nicolas and R.D. Appel, "Cooperative metaheuristics for exploring proteomic data", *Artificial Intelligence Review*, Holanda, Vol. 20, Nos. 1–2, pp. 95–120, October 2003 (**JOUR INT**).

405. C.J. Rouhiainen, M.O. Tade and G. West, "Multi-Objective Genetic Algorithm for Optimal Scheduling of Chlorine Dosing in Water Distribution Systems", in C. Maksimovic, D. Butler and F. Ali Memon (eds.), *Advances in Water Supply Management, Proceedings of the International Conference on Computers and Control in the Water Industry (CCWI 2003)*, pp. 459–469, Imperial College, London, U.K., Balkema Publishers, The Netherlands, September 2003 (**CONG INT**).

406. O. Cordon, E. Herrera-Viedma, M. Luque, F. de Moya and C. Zarco, "Analyzing the performance of a multiobjective GA-P algorithm for learning fuzzy queries in a machine learning environment", in *Proceedings of Fuzzy Sets and Systems (IFSA 2003)*, Turquía, Springer, Lecture Notes in Artificial Intelligence, Vol. 2715, pp. 611–619, 2003 (**CONG INT**).

407. H.A. Abbass, "Speeding up backpropagation using multiobjective evolutionary algorithms", *Neural Computation*, Estados Unidos, Vol. 15, No. 11, pp. 2705–2726, November 2003 (**JOUR INT**).

408. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Suiza, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).

409. Xavier Llorà and David E. Goldberg, "Bounding the Effect of Noise in Multiobjective Learning Classifier Systems", *Evolutionary Computation*, Estados Unidos, Vol. 11, No. 3, pp. 279–298, Fall 2003 (**JOUR INT**).

410. Andrés Gómez de Silva Garza, "A Coevolutionary Method for Automating Airport Gate Scheduling", in Edgar Chávez, Jesús Favela, Marcelo Mejía and Alberto Oliart (editors), *Fourth Mexican International Conference on Computer Science*, pp. 200–206, IEEE Computer Society, Los Alamitos, California, September 2003 (**CONG INT**).

411. Rajeev Kumar and Nilanjan Banerjee, "Multicriteria Network Design Using Evolutionary Algorithm", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part II*, pp.

2179–2190, Springer. Lecture Notes in Computer Science Vol. 2724, July 2003 (**CONG INT**).

412. R.M. Hubley, E. Zitzler and J.C. Roach, "Evolutionary algorithms for the selection of single nucleotide polymorphisms", *BMC Bioinformatics*, Inglaterra, Vol. 4, Art. No. 30, July 23, 2003 (**JOUR INT**).
413. Karim Hamza, Juan F. Reyes-Luna and Kazuhiro Saitou, "Simultaneous Assembly Planning and Assembly System Design Using Multi-objective Genetic Algorithms", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part II*, pp. 2096–2108, Springer. Lecture Notes in Computer Science Vol. 2724, July 2003 (**CONG INT**).
414. Hisao Ishibuchi and Youhei Shibata, "A Similarity-Based Mating Scheme for Evolutionary Multiobjective Optimization", in Erick Cant-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 1065–1076, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).
415. Martin Brown and Robert E. Smith, "Effective Use of Directional Information in Multi-objective Evolutionary Computation", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 778–789, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).
416. Onur L. Cetin and Kazuhiro Saitou, "Decomposition-Based Assembly Synthesis of Multiple Structures for Minimum Production Cost", in *Proceedings of IMECE'03 (ASME'2003 International Mechanical Engineering Congress and RD&D Expo*, Washington, DC, USA, ASME Press, November 2003 (**CONG INT**).
417. John R. Koza, Martin A. Keane, Matthew J. Streeter, William Mydlowec, Jessen Yu and Guido Lanza, "Genetic Programming IV. Routine Human-Competitive Machine Intelligence", Kluwer Academic Publishers, 2003, ISBN 1-4020-7446-8 (página 93) (**LIB ING**).
418. Rodrigo Aceves y Carlos A. Brizuela, "Análisis Experimental de Operadores Genéticos en NSGA-II para un Problema de Calendarización Multiobjetivo", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 55–66, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).
419. Salvador Botello, Arturo Hernández y Giovanni Lizarraga, "IS-PAES: Un Nuevo Algoritmo Para la Optimización Multiobjetivo de Armaduras", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 27–42, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).
420. A. Gaspar-Cunha and J.A. Covas, "A Real-World Test Problem for EMO Algorithms", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 752–766,

Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

421. Andrea Toffolo and Ernesto Benini, "Genetic Diversity as an Objective in Multi-Objective Evolutionary Algorithms", *Evolutionary Computation*, Estados Unidos, Vol. 11, No. 2, pp. 151–167, Summer 2003 (**JOUR INT**).

422. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).

423. Carlos A. Brizuela and Rodrigo Aceves, "Experimental Genetic Operators Analysis for the Multi-objective Permutation Flowshop", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 578–592, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

424. Kalyanmoy Deb, Pawan Zope and Abhishek Jain, "Distributed Computing of Pareto-Optimal Solutions with Evolutionary Algorithms", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 534–549, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

425. Michael Guntsch and Martin Middendort, "Solving Multi-criteria Optimization Problems with Population-Based ACO", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 464–478, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

426. Hisao Ishibuchi and Youhei Shibata, "An Empirical Study on the Effect of Mating Restriction on the Search Ability of EMO Algorithms", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 433–447, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

427. Andrew Wildman and Geoff Parks, "A Comparative Study of Selective Breeding Strategies in a Multiobjective Genetic Algorithm", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 418–432, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

428. Hisao Ishibuchi, Tadashi Yoshida and Tadahiko Murata, "Balance Between Genetic Search and Local Search in Memetic Algorithms for Multiobjec-

tive Permutation Flowshop Scheduling", *IEEE Transactions on Evolutionary Computation*, Estados Unidos, Vol. 7, No. 2, pp. 204–223, April 2003 (**JOUR INT**).

429. Andrzej Jaszkiewicz, "Do Multiple-Objective Metaheuristics Deliver on Their Promises? A Computational Experiment on the Set-Covering Problem", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 2, pp. 133–143, April 2003 (**JOUR INT**).

430. Naesung Lyu and Kazuhiro Saitou, "Topology Optimization of Multi-Component Structures Via Decomposition-Based Assembly Synthesis", in *Proceedings of the ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference (DETC'2003)*, Chicago, Illinois, September 2003 (**CONG INT**).

431. David W. Corne, Kalyanmoy Deb, Peter J. Fleming and Joshua D. Knowles, "The Good of the Many Outweights the Good of the One: Evolutionary Multi-Objective Optimization", *Connections. The Newsletter of the IEEE Neural Networks Society*, Vol. 1, No. 1, pp. 9–13, ISSN 1543-4281, February 2003 (**REV DIV**).

432. Jesse B. Zydallis. "Explicit Building-Block Multiobjective Genetic Algorithms: Theory, Analysis, and Development", PhD thesis, Air Force Institute of Technology, Department of the Air Force, Air University, Wright-Patterson, Airforce Base, Ohio, USA, March 2003 (**TES DOC**).

433. Robin C. Purshouse and Peter J. Fleming, "Conflict, Harmony, and Independence: Relationships in Evolutionary Multi-criterion Optimisation", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 16–30, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

434. T. Wright, V.J. Gillet, D.V.S. Green and S.D. Pickett, "Optimizing the size and configuration of combinatorial libraries", *Journal of Chemical Information and Computer Sciences*, Estados Unidos, Vol. 43, No. 2, pp. 381–390, March-April 2003 (**JOUR INT**).

435. K.C. Tan, E.F. Khor, T.H. Lee and Y.J. Yang, "A tabu-based exploratory evolutionary algorithm for multiobjective optimization", *Artificial Intelligence Review*, Holanda, Vol. 19, No. 3, pp. 231–260, May 2003 (**JOUR INT**).

436. Manuel Laguna and Rafael Martí, *Scatter Search. Methodology and Implementations in C*, Kluwer Academic Publishers, 2003, ISBN 1-4020-7376-3, páginas 143 y 266 (**LIB ING**).

437. Waldo Gonzalo Cancino Ticona, "Aplicação de Algoritmos Genéticos Multi-Objetivo para Alinhamento de Seqüências Biológicas", Master's Thesis, Universidad de Sao Paulo en San Carlos, Brasil, Abril de 2002 (**TES MAE**).

438. Oscar Cordón, Enrique Herrera-Viedma y María Luque, "Validación de un Algoritmo de PG Multiobjetivo para el Aprendizaje de Consultas Booleanas en un Entorno Realista de Recuperación de Información", en *Actas del II Congreso Español sobre Metaheursticas, Algoritmos Evolutivos y Bioinspirados (MAEB 03)*, Gijón,España, pp. 437–444, Febrero de 2003, ISBN 84-607-65-26-1 (**CONG INT**).
439. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).
440. Hisao Ishibuchi and Tadashi Yoshida, "Hybrid Evolutionary Multi-Objective Optimization Algorithms", in A. Abraham, J. Ruiz del Solar and Mario Köppen (eds), *Soft Computing Systems: Design, Management and Applications (Frontiers in Artificial Intelligence and Applications, Volume 87)*, IOS Press, pp. 163–172, ISBN 1-58603-297-6, 2002 (**CAP LIB**).
441. Oscar Cordón, Enrique Herrera-Viedma and María Luque, "Evolutionary Learning of Boolean Queries by Multiobjective Genetic Programming", in Juan Julián Merelo Guervós, Panagiotis Adamidis, Hans-Georg Beyer, José-Luis Fernández-Villacañas and Hans-Paul Schwefel (eds), *Parallel Problem Solving from Nature—PPSN VII*, Springer, Lecture Notes in Computer Science Volume 2439, pp. 710–719, Granada, Spain, September 2002 (**CONG INT**).

Capítulos de Libros

- Ian C. Parmee, Carlos A. Coello Coello and Andrew H. Watson, "Data Representations for Evolutionary Computation", in H. Cartwright, (Editor), *Intelligent Data Analysis in Science*, pp. 95–122, Oxford University Press, ISBN 0-19-850233-8, 2000.

    1. Rafal Kicinger, "Integrated Intelligent Knowledge Management", In Sanjeev Kumar, Gregory S. Hornby and Joshua Bongard (editors), *Developmental Systems: Papers from the 2006 Fall Symposium*, Technical Report FS-05-03. Association for the Advancement of Artificial Intelligence, Menlo Park, California, USA, 2006.

- Ricardo Landa Becerra and Carlos A. Coello Coello, "A Cultural Algorithm for Solving the Job-Shop Scheduling Problem", en Yaochu Jin (editor) *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 37–55, Studies in Fuzziness and Soft Computing, Vol. 167, ISBN 3-540-22902-7, 2005.

    1. Jesus Garcia, Antonio Berlanga and Jose M. Molina, "Evolutionary algorithms in multiply-specified engineering. The MOEAs and WCES strategies", *Advanced Engineering Informatics*, Vol. 21, No. 1, pp. 3–21, January 2007.

2. M. J. Pérez, J. García, L. Martí and J. M. Molina, "Multi-Objective Optimization Evolutionary Algorithms in Insurance-Linked Derivatives", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 885–908, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).

- **Coello Coello, Carlos A. "Evolutionary Multi-Objective Optimization: A Critical Review", en Ruhul Sarker, Masoud Mohammadian and Xin Yao (Editores), *Evolutionary Optimization*, Chapter 5, pp. 117–146, Kluwer Academic Publishers, Boston, ISBN 0-7923-7654-4, February 2002.**

  1. Jae-Yoon Jung and James A. Reggia, "Evolutionary Design of Neural Network Architectures Using a Descriptive Encoding Language", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 676–688, December 2006.
  2. Jae-Yon Jung and James A. Reggia, "A Descriptive Encoding Language for Evolving Modular Neural Networks", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part II*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 519–530, Seattle, Washington, USA, June 2004 (**CONG INT**).
  3. Shengwu Xiong and Weiwu Wang, "A New Hybrid Structure Genetic Programming in Symbolic Regression", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1500–1506, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**)
  4. Xiong Shengwu, Wang Weiwu and Li Feng, "A New Genetic Programming Approach in Symbolic Regression", *Proceedings of the Fifteenth International Conference on Tools with Artificial Intelligence (ICTAI 03)*, pp. 161–165, IEEE Computer Society, Sacramento, California, Noviembre de 2003 (**CONG INT**).
  5. Jeffrey A. Joines, Deepak Gupta, Mahmut Ali Gokce, Russell E. King and Michael G. Kay, "Supply Chain Multi-Objective Simulation Optimization", in E. Yücesan, C.-H. Chen, J.L. Snowdon, and J.M. Charnes (eds), *Proceedings of the 2002 Winter Simulation Conference*, pp. 1306–1314, San Diego, California, December 2002 (**CONG INT**).
  6. T.H. Pulliam, M. Nemec, T. Hoslt, and D.W. Zingg, "Comparison of Evolutionary (Genetic) Algorithm and Adjoint Methods for Multi-Objective Viscous Airfoil Optimizations", *41st Aerospace Sciences Meeting*, Paper AIAA 2003-0298, Reno, Nevada, January 2003 (**CONG INT**).

- Coello Coello, Carlos A. & Mariano Romero, Carlos E., "Evolutionary Algorithms and Multiple Objective Optimization", en Xavier Gandibleux & Matthias Ehrgott (editors), *Multiple Criteria Optimization. State of the Art Annotated Bibliographic Survey*, Chapter 6, pp. 277-331, Kluwer's International Series in Operations Research and Management Science, Volume 52, Kluwer Academic Publishers, ISBN 1-4020-7128-0, June 2002.

1. Semya Elaoud, Taicir Loukil and Jacques Teghem, "The Pareto fitness genetic algorithm: Test function study", *European Journal of Operational Research*, Vol. 177, No. 3, pp. 1703–1719, March 16, 2007.
2. Mary E. Kurz and Sarah Canterbury, "Minimizing Total Flowtime and Maximum Earliness on a Single Machine Using Multiple Measures of Fitness", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 803–809, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).
3. Joshua Knowles and David Corne, "Memetic Algorithms for Multiobjective Optimization: Issues, Methods and Prospects", in William E. Hart, N. Krasnogor and J.E. Smith (editors), *Recent Advances in Memetic Algorithms*, pp. 313–352, Springer. Studies in Fuzziness and Soft Computing, Vol. 166, 2005 (**CAP LIB**).

- Coello Coello, Carlos A., Toscano Pulido, Gregorio and Mezura Montes, Efrén, "Current and Future Research Trends in Evolutionary Multiobjective Optimization", in Manuel Graña, Richard Duro, Alicia d'Anjou, and Paul P. Wang (editors), *Information Processing with Evolutionary Algorithms: From Industrial Applications to Academic Speculations*, pp. 213–231, Springer-Verlag, ISBN 1-8523-3866-0, 2005.

  1. Daniel E. Salazar and Claudio M. Rocco, "Solving advanced multi-objective robust designs by means of multiple objective evolutionary algorithms (MOEA): A reliability application", *Reliability Engineering & System Safety*, Vol. 92, No. 6, pp. 697–706, June 2007.
  2. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.
  3. Diego Sal and Manuel Graña, "Hyperspectral image watermarking with an evolutionary algorithm", *Knowledge-Based Intelligent Information and Engineering Systems, Pt 1, Proceedings*, pp. 833–839, Springer, Lecture Notes in Artificial Intelligence Vol. 3681, 2005.
  4. Diego Sal Díaz and Manuel Graña Romay, "Introducing a Watermarking with a Multi-Objective Genetic Algorithm", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 2, pp. 2219–2220, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005 (**CONG INT**).

- Coello Coello, Carlos A., "Recent Trends in Evolutionary Multiobjective Optimization", in Ajith Abraham, Lakhmi Jain and Robert Goldberg (editors), *Evolutionary Multiobjective Optimization: Theoretical Advances And Applications*, pp. 7–32, Springer-Verlag, London, 2005, ISBN 1-85233-787-7.

  1. Gideon Avigad, "Search and Selection of Concepts in Multi-objective Engineering Problems Using Evolutionary Algorithms", PhD thesis, The Iby

and Aladar Fleischman Faculty of Engineering, The Zandman-Slaner Graduate School of Engineering, Tel Aviv University, Israel, November 2006 (**TES DOC**).

2. Miguel Rocha, Pedro Sousa, Miguel Rio and Paulo Cortez, "QoS Constrained Internet Routing with Evolutionary Algorithms", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 9270–9277, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
3. Hui Li and Qingfu Zhang, "A Multiobjective Differential Evolution Based on Decomposition for Multiobjective Optimization with Variable Linkages", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 583–592, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
4. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.

- Carlos A. Coello Coello, "Evolutionary Multiobjective Optimization: Current and Future Challenges", en Jose Benitez, Oscar Cordon, Frank Hoffmann and Rajkumar Roy (editors), *Advances in Soft Computing—Engineering, Design and Manufacturing*, pp. 243–256, Springer-Verlag, ISBN 1-85233-755-9, September 2003.

    1. Wangshu Yao, Chen Shifu and Chen Zhaoqian, "SDMOGA: A New Multiobjective Genetic Algorithm Based on Objective Space Divided", in Irwin King, Jun Wang, Laiwan Chan and DeLiang L. Wang (editors), *Neural Information Processing, 13th International Conference, ICONIP 2006, Part III*, pp. 754–762, Springer-Verlag. Lecture Notes in Computer Science Vol. 4234, Hong Kong, China, October 2006.
    2. L. Grandinetti, F. Guerriero, G. Lepera and M. Mancini, "A niched genetic algorithm to solve a pollutant emission reduction problem in the manufacturing industry: A case study", *Computers & Operations Research*, Vol. 34, No. 7, pp. 2191–2214, July 2007.
    3. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
    4. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.
    5. Matěj Lepš, "Single and Multi-Objective Optimization in Civil Engineering", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in*

Engineering Optimization, pp. 322–342, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

Tesis Doctoral

- **Carlos A. Coello Coello. *An Empirical Study of Evolutionary Techniques for Multiobjective Optimization in Engineering Design*, PhD thesis, Department of Computer Science, Tulane University, New Orleans, Louisiana, April 1996.**

1. Gideon Avigad, "Search and Selection of Concepts in Multi-objective Engineering Problems Using Evolutionary Algorithms", PhD thesis, The Iby and Aladar Fleischman Faculty of Engineering, The Zandman-Slaner Graduate School of Engineering, Tel Aviv University, Israel, November 2006 (**TES DOC**).
2. Susanna Mocci, "Modelli e Algoritmi Multiobiettivo Per La Pianificazione Delle Reti Attive Di Distribuzione", PhD thesis, Dipartimento di Ingegneria Elettrica ed Elettronica, Università Degli Studi di Cagliari, Italy, Febrero, 2005 (**TES DOC**).
3. Liu Guoquan, "Modelling and Scheduling of Hetereogeneous Computing Systems", PhD thesis, Department of Industrial and Systems Engineering, National University of Singapore, Singapore, 2005 (**TES DOC**).
4. B. Suman and P. Kumar, "A survey of simulated annealing as a tool for single and multiobjective optimization", *Journal of the Operational Research Society*, Vol. 57, No. 10, pp. 1143–1160, October 2006.
5. Nadia Nedjah and Luiza de Macedo Mourelle, "Evolutionary Multi-Objective Optimisation: A Review", in Nadia Nedjah and Luiza de Macedo Mourelle (editors), *Real-World Multi-Objective System Engineering*, pp. 3–27, Nova Science Publishers, New York, 2005.
6. Hakim Mabed, "Modeles et Techniques d'Optimisation Dynamique pour le Reseaux Radiomobiles", PhD thesis, Ecole Doctorale d'Angers, Université d'Angers, France, December 2003 (**TES DOC**).
7. Greg Rohling, "Multiple Objective Evolutionary Algorithms for Independent, Computationally Expensive Objective Evaluations", PhD thesis, School of Electrical and Computer Engineering, Georgia Institute of Technology, November 2004 (**TES DOC**).
8. Mahamed G.H. Omran, Andries P. Engelbrecht and Ayed Salman, "Differential Evolution Methods for Unsupervised Image Classification", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 966–973, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
9. J. Olvander, "Robustness considerations in multi-objective optimal design", *Journal of Engineering Design*, Vol. 16, No. 5, pp. 511–523, October 2005.

10. M. Omran, A.P. Engelbrecht and A. Salman, "Particle swarm optimization method for image clustering", *International Journal of Pattern Recognition and Artificial Intelligence*, Vol. 19, No. 3, pp. 297–321, May 2005.

11. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

12. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).

13. David Greiner, Gabriel Winter, José M. Emperador and Blas Galván, "Gray Coding in Evolutionary Multicriteria Optimization: Application in Frame Structural Optimum Design", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 576–591, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

14. B. Suman, "Study of self-stopping PDMOSA and performance measure in multiobjective optimization", *Computers & Chemical Engineering*, Vol. 29, No. 5, pp. 1131–1147, April 15, 2005 (**JOUR INT**).

15. Mahamed G.H. Omran, "Particle Swarm Optimization Methods for Pattern Recognition and Image Processing", PhD thesis, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, Pretoria, South Africa, November 2004 (**TES DOC**).

16. C. Elegbede, "Structural reliability assessment based on particles swarm optimization", *Structural Safety*, Vol. 27, No. 2, pp. 171–186, 2005 (**JOUR INT**).

17. Q. Z. Xu, Q. F. Zhao, W. J. Pei, L. X. Yang and Z. Y. He, "Design interpretable neural network trees through self-organized learning of features", in *Proceedings of the International Joint Conference on Neural Networks (IJCNN'04)*, IEEE Press, pp. 1433–1438, Hungary, 2004 (**CONG INT**).

18. Adil Baykasoğlu, "Preemptive goal programming using simulated annealing", *Engineering Optimization*, Vol. 37, No. 1, pp. 49–63, January 2005 (**JOUR INT**).

19. E.F. Khor, K.C. Tan and Y.J. Yang, "An Evolutionary Algorithm with Tabu Restriction and Heuristic Reasoning for Multiobjective Optimization", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 255–277, Berlin Heidelberg, 2005, ISBN 3-540-22902-7 (**CAP LIB**).

20. Matthias Ehrgott and Xavier Gandibleux, "Approximative Solution Methods for Multiobjective Combinatorial Optimization", *Top*, Vol. 12, No. 1, pp. 1–89, June 2004 (**JOUR INT**).

21. Qinzhen Xu, Qiangfu Zhao, Wenjiang Pei, Luxi Yang and Zhenya He, "Interpretable Neural Network Tree for Continuous-Feature Data Sets", *Neural Information Processing*, Vol. 3, No. 3, pp. 77–84, June 2004 (**JOUR INT**).

22. Yann Collette and Patrick Siarry, "Multiobjective Optimization. Principles and Case Studies", Springer, Berlin, 2003, ISBN 3-540-40182-2 (**LIB ING**).

23. Mark A. Gammon, "Ship Hull Form Optimization by Evolutionary Algorithm", PhD thesis, Institute for Graduate Studies in Science and Engineering, Yildiz Technical University, Istanbul, Turkey, 2004 (**TES DOC**).

24. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

25. Guan-Chun Luh and Chung-Huei Chueh, "Multi-objective optimal design of truss structure with immune algorithm", *Computers & Structures*, Vol. 82, Nos. 11–12, pp. 829–844, May 2004 (**JOUR INT**).

26. J. Oh and C. Wu, "Genetic-algorithm-based real-time task scheduling with multiple goals", *Journal of Systems and Software*, Vol. 71, No. 3, pp. 245–258, May 2004 (**JOUR INT**).

27. Lukáš Sekanina, *Evolvable Components. From Theory to Hardware Implementations*, Springer, Berlin, 2004, ISBN 3-540-40377-9, p. 52 (**LIB ING**).

28. Chun Lu, Qiangfu Zhao, Wenjiang Pei and Zhenya He, "A Multiple Objective Optimization Based GA for Designing Interpretable and Comprehensible Neural Network Trees", in *Proceedings of the IEEE International Conference on Neural Networks and Signal Processing (ICNNSP03)*, pp. 518–521, IEEE, December 2003 (**CONG INT**).

29. Adam Berry and Peter Vamplew, "A Simplified Artificial Life Model for Multiobjective Optimisation: A Preliminary Report", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1331–1339, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

30. C. Elegbede and K. Adjallah, "Availability allocation to repairable systems with genetic algorithms: a multi-objective formulation", *Reliability Engineering & System Safety*, Vol. 82, No. 3, pp. 319–330, December 2003 (**JOUR INT**)

31. Balram Suman, "Simulated Annealing-Based Multiobjective Algorithms and Their Application for System Reliability", *Engineering Optimization*, Vol. 35, No. 4, pp. 391–416, August 2003 (**JOUR INT**).

32. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).

33. Alain Berro, "Optimisation Multiobjectif et Stratégies d'Evolution en Environnement Dynamique", PhD thesis, Université des Sciences Sociales Toulouse I, Toulouse, Francia, Diciembre de 2001 (**TES DOC**).
34. Bart De Smedt and Georges Gielen, "HOLMES: Capturing the Yield-Optimized Design Space Boundaries of Analog and RF Integrated Circuits", in Norbert Wehn and Diederik Verkest (editors), *Proceedings of Design, Automation and Test in Europe (DATE'03)*, pp. 256–261, Munich, Germany, IEEE, March 2003 (**CONG INT**).
35. Jiri Ocenasek, "Parallel Estimation of Distribution Algorithms", PhD thesis, Faculty of Information Technology, Brno University of Technology, Brno, Czech Republic, November 2002 (**TES DOC**).
36. Josef Schwarz and Jiri Ocenasek, "Pareto Bayesian Optimization Algorithm for the Multiobjective 0/1 Knapsack Problem", in *Proceedings of the 7th International Mendel Conference on Soft Computing, Mendel 2001*, Brno University of Technology, Brno, Czech Republic, pp. 131–136, ISBN 80-214-1894-X, 2001 (**CONG INT**).
37. Josef Schwarz and Jiri Ocenasek, "Multiobjective Bayesian Optimization Algorithm for Combinatorial Problems: Theory and Practice", *Neural Network World*, Vol. 11, No. 5, pp. 423–441, Czech Republic, ISSN 1210-0552, 2001 (**JOUR INT**).
38. Josef Schwarz and Jiri Ocenasek, "Evolutionary Multiobjective Bayesian Optimization Algorithm: Experimental Study", In *Proceedings of the 35th Spring International Conference: Modelling and Simulation of Systems (MOSIS'01)*, MARQ, Hradec and Moravici, Czech Republic, pp. 101–108, ISBN 80-85988-57-7, 2001 (**CONG INT**).
39. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).
40. Abhishek Singh, Barbara Minsker and David E. Goldberg, "Combining Reliability and Pareto Optimality—An Approach Using Stochastic Multi-Objective Genetic Algorithms", in *American Society of Civil Engineers (ASCE) Environmental & Water Resources Institute (EWRI) World Water & Environmental Resources Congress 2003 & Related Symposia*, Philadelphia, PA, 2003 (**CONG INT**).
41. B. De Smedt and G.C.E. Gielen, "WATSON: Design space boundary exploration and model generation for analog and RF IC design", *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, Vol. 22, No. 2, pp. 213–224, February 2003 (**JOUR INT**).
42. Johan Andersson and David Wallace, "Pareto optimization using the struggle genetic crowding algorithm", *Engineering Optimization*, Vol. 34, No. 6, pp. 623–643, December 2002 (**JOUR INT**).
43. Guan-Chun Luh, Chung-Huei Chueh and Wei-Wen Liu, "MOIA: Multi-Objective Immune Algorithm", *Engineering Optimization*, Volume 35, No. 2, pp. 143–164, April 2003 (**JOUR INT**).

44. K.C. Tan, E.F. Khor, T.H. Lee and Y.J. Yang, "A tabu-based exploratory evolutionary algorithm for multiobjective optimization", *Artificial Intelligence Review*, Vol. 19, No. 3, pp. 231–260, May 2003 (**JOUR INT**).

45. K.C. Tan, E.F. Khor, T.H. Lee and R. Sathikannan, "An evolutionary algorithm with advanced goal and priority specification for multi-objective optimization", *Journal of Artificial Intelligence Research*, Vol. 18, pp. 183–215, 2003 (**JOUR INT**).

46. Marco Cioffi, "Model and Methods for the Optimal Design of Superconducting Power Devices", PhD Thesis, Department of Information Engineering, Second University of Napoli, Italy, 2002 (**TES DOC**).

47. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).

48. Rajkumar Roy and Ashutosh Tiwari, "Generalised Regression GA for Handling Inseparable Function Interaction: Algorithm and Applications", in Juan Julián Merelo Guervós, Panagiotis Adamidis, Hans-Georg Beyer, José-Luis Fernández-Villacañas and Hans-Paul Schwefel (eds), *Parallel Problem Solving from Nature—PPSN VII*, Springer, Lecture Notes in Computer Science Volume 2439, pp. 452–461, Granada, Spain, September 2002 (**CONG INT**).

49. Geoff Leyland, "Multi-Objective Optimisation Applied to Industrial Energy Problems", PhD Thesis, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, May 2002 (**TES DOC**).

50. K.C. Tan, T.H. Lee and E.F. Khor, "Evolutionary Algorithms for Multi-Objective Optimization: Performance Assessments and Comparisons", *Artificial Intelligence Review*, Vol. 17, No. 4, pp. 253–290, June 2002 (**JOUR INT**).

51. David Santo Orcero, *Simulación y Optimización Paralela de Agregados del Silicio*, Tesis de Maestría, Universidad de Málaga, Málaga, España, mayo de 2002 (**TES MAE**).

52. Jaewon Oh, Hyokyung Bahn, Chisu Wu, and Kern Koh, "Pareto-based Soft Real-Time Task Scheduling in Multiprocessor Systems", *7th IEEE Asia-Pacific Software Engineering Conference (APSEC 2000)*, Singapore, pp. 24–29, 2000 (**CONG INT**).

53. Johan Andersson, "Multiobjective Optimization in Engineering Design", PhD Thesis, Linköpings University, Division of Fluid and Mechanical Engineering Systems, Linköping, Suecia, 2001. (**TES DOC**)

54. Johan Andersson, Petter Krus and David Wallace, "Multi-Objective Optimization of Hydraulic Actuator Systems", *Proceedings of the 2000 ASME Design Automation Conference*, Paper DAC-14512, Baltimore, Maryland, September 2000. (**CONG INT**)

55. K.C. Tan, T.H. Lee & E. F. Khor, "Evolutionary Algorithms with Dynamic Population Size and Local Exploration for Multiobjective Optimization, *IEEE Transactions on Evolutionary Computation*, Vol. 5, No. 6, pp. 565-588, December 2001. (**JOUR INT**)

56. A. Baykasoglu, "Goal programming using multiple objective tabu search", *Journal of the Operational Research Society*, Vol. 52, No. 12, pp. 1359–1369, December 2001. (**JOUR INT**)

57. K.C. Tan, Tong H. Lee, D. Khoo & E.F. Khor, "A Multiobjective Evolutionary Algorithm Toolbox for Computer-Aided Multiobjective Optimization", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 31, No. 4, pp. 537–556, August 2001. (**JOUR INT**)

58. Lina Maribel Collí Rivas, "Algoritmos Genéticos y su Aplicación a un Problema con Objetivos Múltiples", Facultad de Matemáticas, Licenciatura en Ciencias de la Computación, Universidad Autónoma de Yucatán, Mérida, Yucatán, Febrero de 1998. (**TES LIC**)

59. Patrick M. Reed, Barbara S. Minsker and David E. Goldberg."The Practitioner's Role in Competent Search and Optimization Using Genetic Algorithms", in Don Phelps and Gerald Sehlke (editors), *Bridging the Gap: Meeting the World's Water and Environmental Resources Challenges. Proceedings of the World Water and Environmental Resources Congress*, American Society of Civil Engineers. ISBN 0-7844-0569-7, Washington, DC, 2001. (**CONG INT**)

60. Patrick M. Reed, Barbara S. Minsker and David E. Goldberg, "Designing a New Elitist Nondominated Sorted Genetic Algorithm for a Multiobjective Long Term Groundwater Monitoring Application", *Proceedings of the 2001 Genetic and Evolutionary Computation Conference. Late-Breaking Papers*, pp. 352–358, San Francisco, California, July 2001. (**CONG INT**)

61. Patrick Reed, Barbara S. Minsker & David E. Goldberg, "A multiobjective approach to cost effective long-term groundwater monitoring using an elitist nondominated sorted genetic algorithm with historical data", *Journal of Hydroinformatics*, Volume 3, Number 2, pp. 71–89, April 2001. (**JOUR INT**)

62. K.C. Tan, T.H. Lee and E.F. Khor, "Evolutionary Algorithms for Multi-Objective Optimization: Performance Assessments and Comparisons", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 979–986, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

63. Johan Andersson and Peter Krus, "Multiobjective Optimization of Mixed Variable Design Problems", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 624–638, Marzo de 2001. (**CONG INT**)

64. Carlos Eduardo Mariano Romero, *Aprendizaje por Refuerzo en Optimización Multiobjetivo*, Tesis Doctoral en Ciencias Computacionales, ITESM Campus Cuernavaca, Cuernavaca, Morelos, México, Marzo de 2001. (**TES DOC**)
65. Dragan Cvetković, *Evolutionary Multi-Objective Decision Support Systems for Conceptual Design*, Plymouth Engineering Design Centre, School of Computing, Faculty of Technology, University of Plymouth, England, July 2000. (**TES DOC**)
66. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, USA, May, 1999. (**TES DOC**)
67. Carlos Cristiano Hasenclever Borges. *Algoritmos Genéticos para Otimização em Dinâmica de Estruturas*. Coordinação dos Programas de Põs-Graduação da Universidade Federal do Rio de Janeiro, D.Sc., Engenharia Civil, Dezembro 1999 (en portugués). (**TES DOC**)
68. Matthias Ehrgott and Xavier Gandibleux, "A Survey and Annotated Bibliography of Multiobjective Combinatorial Optimization", *OR Spektrum*, Vol. 22, pp. 425–460, 2000. (**JOUR INT**)
69. K. C. Tan; T. H. Lee; D. Khoo & E. F. Khor. "MOEA Toolbox for Computer-Aided Multi-Objective Optimization", In *2000 Congress on Evolutionary Computation*, pp. 38–45, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)
70. Matthias Ehrgott and Xavier Gandibleux, "Multiobjective Combinatorial Optimization—Theory, Methodology, and Applications", in Matthias Ehrgott and Xavier Gandibleux (editors), *Multiple Criteria Optimization: State of the Art Annotated Bibliographic Surveys*, pp. 369–444, Kluwer Academic Publishers, Boston, 2002 (**CAP LIB**).

Journals Internacionales

- Arturo Hernández Aguirre and Carlos A. Coello Coello, "Evolutionary Synthesis of Logic Circuits using Information Theory", *Artificial Intelligence Review*, Vol. 20, Nos. 3–4, pp. 445–471, December 2003.

    1. Shuguang Zhao and Licheng Jiao, "Multi-objective evolutionary design and knowledge discovery of logic circuits on an adaptive genetic algorithm", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 3, pp. 195–210, October 2006.

- Carlos A. Coello Coello and Nareli Cruz Cortés, "Hybridizing a Genetic Algorithm with an Artificial Immune System for Global Optimization", *Engineering Optimization*, Vol. 36, No. 5, pp. 607–634, October 2004.

1. George G. Dimopoulos, "Mixed-variable engineering optimization based on evolutionary and social metaphors", *Computer Methods in Applied Mechanics and Engineering*, Vol. 196, Nos. 4–6, pp. 803–817, 2007.
2. Rein Luus, Kelly Sabaliauskas and Ihor Harapyn, "Handling inequality constraints in direct search optimization", *Engineering Optimization*, Vol. 38, No. 4, pp. 391–405, June 2006.
3. P. Musilek, A. Lau, M. Reformat and L. Wyard-Scott, "Immune programming", *Information Sciences*, Vol. 176, No. 8, pp. 972–1002, April 22, 2006.

- Xiaolin Hu, Carlos A. Coello Coello and Zhangcan Huan, "A New Multi-Objective Evolutionary Algorithm Derived from the Line-Up Competition Algorithm", *Engineering Optimization*, Vol. 37, No. 4, pp. 351–379, June 2005.

  1. Lily Rachmawati and Dipti Srinivasan, "A Hybrid Fuzzy Evolutionary Algorithm for a Multi-Objective Resource Allocation Problem", in Nadia Nedjah, Luiza M. Mourelle, Marley M.B.R. Vellasco, Ajith Abraham and Mario Köppen (editors), *Fifth International Conference on Hybrid Intelligent Systems (HIS'05)*, pp. 55–60, IEEE Computer Society, Los Alamitos, California, USA, November, 2005 (**CONG INT**).

- Carlos A. Coello Coello and Gregorio Toscano Pulido, "Multiobjective Structural Optimization using a Micro-Genetic Algorithm", *Structural and Multidisciplinary Optimization*, Vol. 30, No. 5, pp. 388–403, November 2005.

  1. Rafal Drezewski and Leszek Siwik, "Co-Evolutionary Multi-Agent System with Sexual Selection Mechanism for Multi-Objective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 2784–2791, Vancouver, BC, Canda, July 2006.

- **Carlos A. Coello Coello, Gregorio Toscano Pulido and Maximino Salazar Lechuga, "Handling Multiple Objectives with Particle Swarm Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 3, pp. 256–279, June 2004.**

  1. Sotirios K. Goudos, "A versatile software tool for microwave planar radar absorbing materials design using global optimization algorithms", *Materials and Design*, Vol. 28, pp. 2585–2595, 2007.
  2. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
  3. Ganesh K. Venayagamoorthy, Scott C. Smith and Gaurav Singhal, "Particle swarm-based optimal partitioning algorithm for combinational CMOS circuits", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 2, pp. 177–184, March 2007.

4. Yumin Liu and Zhongyuan Yu, "Optimal designing of multi-channel WDM filter using intelligent particle swarm optimization algorithm", *Simulated Evolution and Learning, Proceedings*, pp. 205–212, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.
5. Min Zhang, Huantong Geng, Wenjian Luo, Linfeng Huang and Xufa Wang, "A hybrid of differential evolution and genetic algorithm for constrained multiobjective optimization problems", *Simulated Evolution and Learning, Proceedings*, pp. 318–327, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.
6. Hung-Ming Chen, Bo-Fu Liu, Hui-Ling Huang, Shiow-Fen Hwang and Shinn-Ying Ho, "SODOCK: Swarm optimization for highly flexible protein-ligand docking", *Journal of Computational Chemistry*, Vol. 28, No. 2, pp. 612–623, January 30, 2007.
7. Zhuhong Zhang, "Constrained multiobjective optimization immune algorithm: Convergence and application", *Computers & Mathematics with Applications*, Vol. 52, No. 5, pp. 791–808, September 2006.
8. Haluk Yapicioglu, Alice E. Smith and Gerry Dozier, "Solving the semi-desirable facility location problem using bi-objective particle swarm", *European Journal of Operational Research*, Vol. 177, No. 2, pp. 733–749, March 1, 2007.
9. Yumin Liu, Zhongyuan Yu, "Intelligent particle swarm optimization algorithm and its application in optimal designing of LPG devices for optical communications fields", *Advances in Natural Computation, Part 2*, Springer, Lecture Notes in Computer Science Vol. 4222, pp. 166–175, 2006.
10. Pei-Chann Chang, Shih-Hsin Chen and Jih-Chang Hsieh, "A global archive sub-population genetic algorithm with adaptive strategy in multi-objective parallel-machine scheduling problem", *Advances in Natural, Part 1*, Springer, Lecture Notes in Computer Science Vol. 4221, pp. 730–739, 2006.
11. A.R. Yildiz and F. Ozturk, "Hybrid enhanced genetic algorithm to select optimal machining parameters in turning operation", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 12, pp. 2041–2053, December 2006.
12. P. Kumar, D. Gospodaric and P. Bauer, "Improved genetic algorithm inspired by biological evolution", *Soft Computing*, Vol. 11, No. 10, pp. 923–941, August 2007.
13. Patrick N. Ngatchou, Warren L.J. Fox and Mohamed A. El-Sharkawi, "Multiobjective Multistatic Sonar Sensor Placement", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 9263–9269, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
14. Haluk Yapicioglu, Gerry Dozier and Alice E. Smith, "Neural Network Enhancement of Multiobjective Evolutionary Search", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6800–6806, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

15. Wen-Fung Leong and Gary G. Yen, "Dynamic Population size in PSO-based Multiobjective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6182–6189, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

16. Gary G. Yen and Moayed Daneshyari, "Diversity-based Information Exchange among Multiple Swarms in Particle Swarm Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6150–6157, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

17. A.R. Rahimi-Vahed and S.M. Mirghorbani, "A multi-objective particle swarm for a flow shop scheduling problem", *Journal of Combinatorial Optimization*, Vol. 13, No. 1, pp. 79–102, January 2007 (**JOUR INT**).

18. Yiğit Karpat and Tuğrul Özel, "Swarm-Intelligent Neural Network System (SINNS) Based Multi-Objective Optimization of Hard Turning", *Transactions of North American Manufacturing Research Institute*, pp. 9–16, Vol. 34, 2006 (**JOUR INT**).

19. Andi Asmara, Renato A. Krohling and Frank Hoffmann, "Parameter Tuning of a Computed-Torque Controller for a 5 Degree of Freedom Robot Arm using Co-evolutionary Particle Swarm Optimization", in *2005 IEEE Swarm Intelligence Symposium (SIS'05)*, pp. 162–168, IEEE Press, Pasadena, California, June 2005.

20. J.J. Liang, P.N. Suganthan and K. Deb, "Novel Composition Test Functions for Numerical Global Optimization", in *2005 IEEE Swarm Intelligence Symposium (SIS'05)*, pp. 68–75, IEEE Press, Pasadena, California, June 2005.

21. M. Janga Reddy and D. Nagesh Kumar, "An efficient multi-objective optimization algorithm based on swarm intelligence for engineering design", *Engineering Optimization*, Vol. 39, No. 1, pp. 49–68, January 2007.

22. Alexandre M. Baltar and Darrell G. Fontane, "A generalized multiobjective particle swarm optimization solver for spreadsheet models: application to water quality", in *Hydrology Days 2006*, Fort Collins, Colorado, March 2006.

23. Fabio Freschi and Maurizio Repetto, "VIS: an artificial immune network for multi-objective optimization", *Engineering Optimization*, Vol. 38, No. 8, pp. 975–996, December 2006.

24. Y.F. Niu and L.C. Shen, "Multi-resolution image fusion using AMOPSO-II", *Intelligent Computing in Signal Processing and Pattern Recognition*, Springer-Verlag, pp. 343–352, Lecture Notes in Control and Information Sciences Vol. 345, 2006.

25. Nissrine Krami, Mohamed A. El-Sharkawi and Mohamed Akherraz, "Multi Objective Particle Swarm Optimization Technique for Reactive Power Planning", in *2006 Swarm Intelligence Symposium (SIS'06)*, pp. 170–174, IEEE Press, Indianapolis, Indiana, USA, May 2006 (**CONG INT**).

26. H. Yamachi, Y. Tsujimura, Y. Kambayashi and H. Yamamoto, "Multi-objective genetic algorithm for solving N-version program design problem", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 1083–1094, September 2006.

27. M.K. Gill, Y.H. Kaheil, A. Khalil, M. Mckee and L. Bastidas, "Multiobjective particle swarm optimization for parameter estimation in hydrology", *Water Resources Research*, Vol. 42, No. 7, Art. No. W07417, July 22, 2006.

28. Z.H. Cui, J.C. Zeng and G.J. Sun, "Adaptive velocity threshold particle swarm optimization", *Rough Sets and Knowledge Technology*, pp. 327–332, Springer, Lecture Notes in Artificial Vol. 4062, 2006.

29. Daniel W. Boeringer and Douglas H. Werner, "Bezier representations for the multiobjective, optimization of conformal array amplitude weights", *IEEE Transactions on Antennas and Propagation*, Vol. 54, No. 7, pp. 1964–1970, July 2006.

30. Nursel Öztürk, Ali R. Yildiz, Necmettin Kaya and Ferruh Öztürk, "Neuro-Genetic Design Optimization Framework to Support the Integrated Robust Design Optimization Process in CE", *Concurrent Engineering: Research and Applications*, Vol. 14, No. 1, pp. 5–16, March 2006.

31. S.J. Ho, W.Y. Ku, J.W. Jou, M.H. Hung and S.Y. Ho, "Intelligent particle swarm optimization in multi-objective problems", in *Advances in Knowledge Discovery and Data Mining*, Springer, pp. 790–800, Lecture Notes in Artificial Intelligence Vol. 3918, 2006.

32. Nasreddine Hallam, Peter Blanchfield, and Graham Kendall, "Handling Diversity in Evolutionary Multiobjective Optimisation", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2233–2240, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.

33. M.A. Abido, "Multiobjective Evolutionary Algorithms for Electric Power Dispatch Problem", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 315–329, June 2006.

34. J.J. Liang, A.K. Qin, Ponnuthurai Nagaratnam and S. Baskar, "Comprehensive Learning Particle Swarm Optimizer for Global Optimizations of Multimodal Functions", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 230–244, June 2006 (**JOUR INT**).

35. Visakan Kadirkamanathan, Kirusnapillai Selvarajah and Peter J. Fleming, "Stability Analysis of the Particle Dynamics in Particle Swarm Optimizer", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 245–255, June 2006 (**JOUR INT**).

36. H.Y. Meng, X.H. Zhang and S.Y. Liu, "A co-evolutionary particle swarm optimization-based method for multiobjective optimization", *AI 2005: Advances in Artificial Intelligence*, pp. 349–359, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 3809, 2005.

37. V.L. Huang, P.N. Suganthan and J.J. Liang, "Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems", *International Journal of Intelligent Systems*, Vol. 21, No. 2, pp. 209–226, February 2006.

38. Xiaohua Zhang, Hongyun Meng and Licheng Jiao, "Improving PSO-Based Multiobjective Optimization Using Competition and Immunity Clonal", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 839–845, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.

39. Lyndon While, Phil Hingston, Luigi Barone, and Simon Huband, "A Faster Algorithm for Calculating Hypervolume", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 29–38, February 2006.

40. Joshua Knowles, "ParEGO: A Hybrid Algorithm With On-Line Landscape Approximation for Expensive Multiobjective Optimization Problems", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 50–66, February 2006.

41. H.Y. Meng, X.H. Zhang and S.Y. Liu, "Intelligent multiobjective particle swarm optimization based on AER model", in *Progress in Artificial Intelligence, Proceedings*, pp. 178–189, Springer, Lecture Notes in Artificial Intelligence Vol. 3808, 2005.

42. Zhang Xiao-hua, Meng Hong-yun and Jiao Li-cheng, "Intelligent Particle Swarm Optimization in Multiobjective Optimization", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 714–719, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

43. Andries P. Engelbrecht, "Fundamentals of Computational Swarm Intelligence", John Wiley & Sons, Ltd, 2005, ISBN 978-0-470-09191-3, páginas 41, 197, 283 y 336 (**LIB ING**).

44. Y.F. Chen and V.K. Dubey, "Ultra-wideband source localization using a particle-swarm-optimized Capon estimator from a frequency-dependent channel modeling viewpoint", *Eurasip Journal on Applied Signal Processing 2005*, Vol. 12, pp. 1854–1866, July 21, 2005.

45. N.B. Jin and Y. Rahmat-Samii, "Parallel particle swarm optimization and finite-difference time-domain (PSO/FDTD) algorithm for multiband and wide-band patch antenna designs", *IEEE Transactions on Antennas and Propagation*, Vol. 53, No. 11, pp. 3459–3468, November 2005.

46. Carlo R. Raquel and Prospero C. Naval, Jr., "An Effective Use of Crowding Distance in Multiobjective Particle Swarm Optimization", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 257–264, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

47. F.Q. Zhao, Q.Y. Zhang, D.M. Yu, X.H. Chen and Y.H. Yang, "A hybrid algorithm based on PSO and simulated annealing and its applications for partner selection in virtual enterprise", *Advances in Intelligent Computing,*

Pt 1, Proceedings, Springer, pp. 380–389, Lecture Notes in Computer Science Vol. 3644, 2005.

48. Y.J. Li, D.Z. Yao, J. Yao and W.F. Chen, "A particle swarm optimization algorithm for beam angle selection in intensity-modulated radiotherapy planning", *Physics in Medicine and Biology*, Vol. 15, No. 15, pp. 3491–3514, August 7, 2005.
49. Fabio Freschi and Maurizio Repetto, "Multiobjective Optimization by a Modified Artificial Immune System Algorithm", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 248–261, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005 (**CONG INT**).
50. M. Omran, A.P. Engelbrecht and A. Salman, "Particle swarm optimization method for image clustering", *International Journal of Pattern Recognition and Artificial Intelligence*, Vol. 19, No. 3, pp. 297–321, May 2005.
51. Jason Teo and Hussein A. Abbass, "Multiobjectivity and Complexity in Embodied Cognition", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 4, pp. 337–360, August 2005 (**JOUR INT**).
52. Julio E. Alvarez-Benitez, Richard M. Everson and Jonathan E. Fieldsend, "A MOPSO Algorithm Based Exclusively on Pareto Dominance Concepts", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 459–473, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
53. C.S. Chang and C.M. Kwan, "Evaluation of evolutionary algorithms for multi-objective train schedule optimization", *AI 2004: Advances in Artificial Intelligence*, Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 3339, pp. 803–815, 2004 (**CONG INT**).

- **Carlos A. Coello Coello. "An Updated Survey of GA-Based Multiobjective Optimization Techniques", *ACM Computing Surveys*, ACM Press, Vol. 32, No. 2, pp. 109–143, June 2000.**

1. Man Nie, Shiyou Yang, Guangzheng Ni, S.L. Ho and Peihong Ni, "An improved vector evolutionary algorithm for multiobjective designs of electromagnetic devices", *International Journal of Applied Electromagnetics and Mechanics*, Vol. 25, Nos. 1–4, pp. 711–715, 2007.
2. Steven L. Waslander, "Multi-Agent Systems Design for Aerospace Applications", PhD thesis, Department of Aeronautics and Astronautics, Stanford University, California, USA, June 2007 (**TES DOC**).
3. Nicholas Young, "Coevolution and Encoding of Fuzzy Systems, and Multiobjective Optimisation", PhD thesis, Faculty of Business and Informatics, Central Queensland University, Australia, February 2007 (**TES DOC**).

4. Cyril Fillon and Alberto Bartoli, "Multi-objective Genetic Programming for Improving the Performance of TCP", in Marc Ebner, Michael O'Neill, Anikó Ekárt, Leonardo Vanneschi and Anna Isabel Esparcia-Alcázar (editors), *Genetic Programming, 10th European Conference, EuroGP 2007*, pp. 170–180, Springer. Lecture Notes in Computer Science Vol. 4445, Valencia, Spain, April 2007.
5. Nikos D. Lagaros and Manolis Papadrakakis, "Robust seismic design optimization of steel structures", *Structural and Multidisciplinary Optimization*, Vol. 33, No. 6, pp. 457–469, June 2007.
6. Mohammad H. Kurdi, "Robust Multicriteria Optimization of Surface Location Error and Material Removal Rate in High-Speed Milling Under Uncertainty", PhD thesis, University of Florida, 2005 (**TES DOC**).
7. E.-G. Talbi, S. Cahon and N. Melab, "Designing cellular networks using a parallel hybrid metaheuristic on the computational grid", *Computer Communications*, Vol. 30, No. 4, pp. 698–713, February 26, 2007.
8. S.L. Ho, S.Y. Yang, G.Z. Ni and K.F. Wong, "An efficient multiobjective optimizer based on genetic algorithm and approximation techniques for electromagnetic design", *IEEE Transactions on Magnetics*, Vol. 43, No. 4, pp. 1605–1608, April 2007.
9. Michalis Fragiadakis, Nikos D. Lagaros and Manolis Papadrakakis, "Performance-based multiobjective optimum design of steel structures considering life-cycle cost", *Structural and Multidisciplinary Optimization*, Vol. 32, No. 1, pp. 1–11, July 2006.
10. Naveed Ramzan and Werner Witt, "Multi-objective optimization in distillation unit: a case study", *Canadian Journal of Chemical Engineering*, Vol. 84, No. 5, pp. 604–613, October 2006.
11. Seyed Hamid Reza Pasandideh and Seyed Taghi Akhavan Niaki, "Multi-response simulation optimization using genetic algorithm within desirability function framework", *Applied Mathematics and Computation*, Vol. 175, No. 1, pp. 366–382, April 1, 2006.
12. S. Singh, A. Payne and R. Kingsland, "Modelling the human visual process by evolving images from noise", *Advances in Machine Vision, Image Processing, and Pattern Analysis*, Springer-Verlag, pp. 251–259, Lecture Notes in Computer Science Vol. 4153, 2006.
13. Andrés L. Medaglia, Eliécer Gutiérrez and Juan Guillermo Villegas, "Solving Facility Location Problems with a Tool for Rapid Development of Multi-Objective Evolutionary Algorithms (MOEAs)", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 642–660, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).
14. Dirk De Pauw, "Optimal Experimental Design for Calibration of Bioprocess Models: A Validated Software Toolbox", PhD thesis, Faculteit Bio-Ingenieurswetenschappen, Universiteit Gent, Belgium, 2005 (**TES DOC**).

15. Han Gil Chae, "A Possibilistic Approach to Rotorcraft Design through a Multi-Objective Evolutionary Algorithm", PhD thesis, School of Aerospace Engineering, Georgia Institute of Technology, USA, December 2006 (**TES DOC**).

16. Raúl Baños Navarro, "Meta-heurísticas Híbridas para Optimización Mono-objetivo y Multi-objetivo. Paralelización y Aplicaciones", PhD thesis, Departamento de Arquitectura de Computadores y Electrónica, Universidad de Almería, Spain, December 2006 (**TES DOC**).

17. Matthias Ehrgott and Margaret M. Wiecek, "Multiobjective Programming", in José Figueira, Salvatore Greco and Matthias Ehrgott (editors), *Multiple Criteria Decision Analysis. State of the Art Surveys*, pp. 667–722, Springer, New York, USA, 2005 (**CAP LIB**).

18. M. Arakawa, K. Hasegawa and K. Funatsu, "QSAR study of anti-HIV HEPT analogues based on multi-objective genetic programming and counter-propagation neural network", *Chemometrics and Intelligent Laboratory Systems*, Vol. 83, No. 2, pp. 91–98, September 15, 2006.

19. I.M. Delamer and J.L.M. Lastra, "Evolutionary multi-objective optimization of QoS-Aware Publish/Subscribe Middleware in electronics production", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 6, pp. 593–607, September 2006.

20. H.W. Ding, L. Benyoucef and X.L. Xie, "A simulation-based multi-objective genetic algorithm approach for networked enterprises optimization", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 6, pp. 609–623, September 2006.

21. A. Dominguez, I. Stiharu and R. Sedaghati, "Practical design optimization of truss structures using the genetic algorithms", *Research in Engineering Design*, Vol. 17, No. 2, pp. 73–84, September 2006.

22. A. Konak, D.W. Coit and A.E. Smith, "Multi-objective optimization using genetic algorithms: A tutorial", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 992–1007, September 2006.

23. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.

24. Steve Uhlig, "A Multiple-Objectives Evolutionary Perspective to Interdomain Traffic Engineering", *International Journal of Computational Intelligence and Applications*, Vol. 5, No. 2, pp. 215–230, 2005.

25. Daniel W. Boeringer and Douglas H. Werner, "Bézier representations for the multiobjective, optimization of conformal array amplitude weights", *IEEE Transactions on Antennas and Propagation*, Vol. 54, No. 7, pp. 1964–1970, July 2006.

26. Manuel Pedro, Edmundo Monteiro and Fernando Boavida, "An approach to off-line inter-domain QoS-aware resource optimization", in F. Boavida

et al. (Editors), *Networking 2006: Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communication Systems*, pp. 247–255, Springer, Lecture Notes in Computer Science Vol 3976, 2006.

27. P. Lacomme, C. Prins and M. Sevaux, "A genetic algorithm for a bi-objective capacitated arc routing problem", *Computers & Operations Research*, Vol. 33, No. 12, pp. 3473–3493, December 2006.
28. Alexandre César Muniz de Oliveira, "Algoritmos Evolutivos Híbridos com Detecção de Regiões Promissoras em Espaços de Busca Contínuos e Discretos", PhD thesis, Ministério de Ciência e Tecnologia, Instituto Nacional de Pesquisas Espaciais, São José dos Campos, 2004 (**TES DOC**).
29. E.G. Carrano, L.A.E. Soares, R.H.C. Takahashi, R.R. Saldanha and O.M. Neto, "Electric distribution network multiobjective design using a problem-specific genetic algorithm", *IEEE Transactions on Power Delivery*, Vol. 21, No. 2, pp. 995–1005, April 2006.
30. Ramesh Rajagopalan, Chilukuri Mohan, Pramod Varshney, and Kishan Mehrotra, "Multi-objective Mobile Agent Routing in Wireless Sensor Networks", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1730–1737, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
31. A. Dietz, C. Azzaro-Pantel, L. Pibouleau and S. Domenech, "Multiobjective optimization for multiproduct batch plant design under economic and environmental considerations", *Computers & Chemical Engineering*, Vol. 30, No. 4, pp. 599–613, February 15, 2006.
32. M. Gupta, J. Rees, A. Chaturvedi and J. Chi, "Matching information security vulnerabilities to organizational security profiles: a genetic algorithm approach", *Decision Support Systems*, Vol. 41, No. 3, pp. 592–603, March 2006.
33. Jie Yao, Nawwaf Kharma and Peter Grogono, "BMPGA: A Bi-Objective Multi-population Genetic Algorithm for Multi-modal Function Optimization", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 816–823, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).
34. Djamel Berkoune, "Optimisation de L'Ordonnancement Pernant en Compte Les Tâches Prévisionnelles", PhD thesis, Université de Valenciennes et du Hainaut Cambrésis, France, December 2005 (**TES DOC**).
35. E.G. Talbi and H. Meunier, "Hierarchical parallel approach for GSM mobile network design", *Journal of Parallel and Distributed Computing*, Vol. 66, No. 2, pp. 274–290, February 2006.
36. Joshua Knowles, "ParEGO: A Hybrid Algorithm With On-Line Landscape Approximation for Expensive Multiobjective Optimization Problems", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 50–66, February 2006.

37. Arturo Molina Cristóbal, "Multiobjective Control: Linear Matrix Inequality Techniques and Genetic Algorithms Approach", PhD thesis, Department of Automatic Control and Systems Engineering. The University of Sheffield. Sheffield, UK, April 2005 (**TES DOC**).

38. L.E. Smith, A.R. Swickard, A. Heredia-Langner, G.A. Warren, E.R. Siciliano and S.D. Miller, "Design considerations for passive gamma-ray spectrometers", *IEEE Transactions on Nuclear Science*, Vol. 52, No. 5, pp. 1721–1727, Part 3, October 2005.

39. Xavier Llorà, Kumara Sastry, David E. Goldberg, Abhimanyu Gupta and Lalitha Lakshmi, "Combating User Fatigue in iGAs: Partial Ordering, Support Vector Machines, and Synthetic Fitness", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 1363–1370, Vol. 2, ACM Press, New York, USA, June 2005 (**CONG INT**).

40. Christian Blum, Andrea Roli and Enrique Alba, "An Introduction to Metaheuristic Techniques", in Enrique Alba (editor), *Parallel Metaheuristics*, pp. 3–42, Wiley-Interscience, New Jersey, USA, 2005, ISBN 13-978-0-471-67806-9 (**CAP LIB**).

41. J.M. Malard, A. Heredia-Langner, W.R. Cannon, R. Mooney and D.J. Baxter, "Peptide identification via constrained multi-objective optimization: Pareto-based genetic algorithms", *Concurrency and Computation—Practice & Experience*, Vol. 17, No. 14, pp. 1687–1704, December 10, 2005 (**JOUR INT**).

42. P.C.R. Lane and F. Gobet, "Discovering predictive variables when evolving cognitive models", *Pattern Recognition and Data Mining, Pt 1, Proceedings*, Springer, pp. 108–117, Lecture Notes in Computer Science Vol. 3686, 2005.

43. J. Yao, N. Kharma and P. Grogono, "A multi-population genetic algorithm for robust and fast ellipse detection", *Pattern Analysis and Applications*, Vol. 8, Nos. 1–2, pp. 149–162, 2005.

44. Shuguang Zhao, Licheng Jiao, Jianxun Zhao and Yuping Wang, "Evolutionary Design of Analog Circuits with a Uniform-Design Based Multi-Objective Adaptive Genetic Algorithm", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 26–29, IEEE Computer Society Press, Los Alamitos, California, July 2005.

45. Vincent Barichard, "Approches Hybrides Pour Les Problèmes Multiobjectif", PhD thesis, Laboratoire d'Etude et de Recherche en Informatique d'Angers, Université d'Angers, France, November 2003 (**TES DOC**).

46. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

47. David A. Bennett, Ningchuan Xiao and Marc P. Armstrong, "Exploring the Geographic Consequences of Public Policies Using Evolutionary Algorithms", *Annals of the Association of American Geographers*, Vol. 94, No. 4, pp. 827–847, 2004 (**JOUR INT**).

48. M. Lavagna, A. Povoleri and A.E. Finzi, "Interplanetary mission design with aero-assisted manoeuvres multi-objective evolutive optimization", *Acta Astronautica*, Vol. 57, Nos. 2–8, pp. 498–509, July-October 2005 (**JOUR INT**).

49. N.D. Lagaros, V. Plevris and M. Papadrakakis, "Multi-objective design optimization using cascade evolutionary computations", *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 30–33, pp. 3496–3515, 2005 (**JOUR INT**).

50. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

51. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).

52. Mario Köppen, Raul Vicente-Garcia and Betram Nickolay, "Fuzzy-Pareto-Dominance and Its Application in Evolutionary Multi-objective Optimization", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 399–412, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

53. Magnus Lie Hetland and Pål Sætrom, "Evolutionary rule mining in time series databases", *Machine Learning*, Vol. 58 Nos. 2–3, pp. 107–125, February-March 2005 (**JOUR INT**).

54. Hyoung Seog Chung, "Multidisciplinary Design Optimization of Supersonic Business Jets using Approximation Model-Based Genetic Algorithms", PhD thesis, Department of Aeronautics and Astronautics, Stanford University, California, USA, March 2004 (**TES DOC**).

55. Steve Uhlig and Olivier Bonaventure, "Designing BGP-based outbound traffic engineering techniques for stub ASes", *Computer Communication Review*, Estados Unidos, Vol. 34, No. 5, pp. 89–106, October 2004 (**JOUR INT**).

56. Mark D. Johnston and Hans-Martin Adorf, "Multi-objective evolutionary optimization", *OR News, the magazine of the German Operations Research Society*, Alemania, Vol. 18, pp. 11–16, July 2003 (**REV DIV**).

57. B. Andrés-Toro, J.M. Girón Sierra, P. Fernández-Blanco, J.A. López-Orozco and E. Besada-Portas, "Multiobjective Optimization and Multivariable Con-

trol of the Beer Fermentation Process with the Use of Evolutionary Algorithms", *Journal of Zhejiang University SCIENCE*, Vol. 5, No. 4, pp. 378–389, 2004, ISSN 1009-3095 (**JOUR INT**).

58. Dalessandro Soares Vianna and José Elias Claudio Arroyo, "A GRASP algorithm for the multi-objective knapsack problem", in *Proceedings of the XXIV International Conference of the Chilean Computer Science Society (SCCC'04)*, IEEE Computer Society Press, pp. 69–75, Arica, Chile, November 2004 (**CONG INT**).
59. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).
60. V.J. Gillet, "Applications of evolutionary computation in drug design", *Structure and Bonding*, Vol. 110, pp. 133–152, 2004 (**JOUR INT**).
61. A. Povoleri, M. Lavagna and A.E. Finzi, "Aero-Gravity Assisted Manoeuvres within Preliminary Interplanetary Mission Design: A Multi-Objective Evolutive Algorithm Approach", in *18th International Symposium on Space Flight Dynamics*, Haus der Bayerischen Wirtschaft, Munich, Germany, October 2004 (**CONG INT**).
62. Christine L. Mumford, "A Hierarchical Evolutionary Approach to Multi-Objective Optimization", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1944–1951, Portland, Oregon, USA, June 2004 (**CONG INT**).
63. Karl Doerner, Walter J. Gutjahr, Richard F. Hartl, Christine Strauss and Christian Stummer, "Pareto Ant Colony Optimization: A Metaheuristic Approach to Multiobjective Portfolio Selection", *Annals of Operations Research*, Vol. 131 Nos. 1–4, pp. 79–99, October 2004 (**JOUR INT**).
64. Matthias Ehrgott and Xavier Gandibleux, "Approximative Solution Methods for Multiobjective Combinatorial Optimization", *Top*, Vol. 12, No. 1, pp. 1–89, June 2004 (**JOUR INT**).
65. Tatsuya Okabe, "Evolutionary Multi-Objective Optimization - On the Distribution of Offspring in Parameter and Fitness Space -", PhD thesis, Bielefeld University, Germany, 2004 (**TES DOC**).
66. B. Andrés-Toro, E. Besada-Portas, P. Fernández-Blanco, J.A. López-Orozco and J.M. Girón-Sierra, "Multiobjective Optimization of Dynamic Processes by Evolutionary Methods", in *Proceedings of the 15th IFAC World Congress on Automatic Control*, Barcelona, Spain, July 2002 (**CONG INT**).
67. Yuhuai Wang, Shiyou Yang, Guangzheng Ni, S.L. Ho and Z.J. Liu, "An Emigration Genetic Algorithm and Its application to Multiobjective Optimal Designs of Electromagnetic Devices", *IEEE Transactions on Magnetics*, Vol. 40, No. 2, pp. 1240–1243, March 2004 (**JOUR INT**).

68. Y.H. Wang, S.Y. Yang, G.Z. Ni, P.H. Ni and S.L. Ho, "An emigration genetic algorithm for vector optimizations of electromagnetic devices", *International Journal of Applied Electromagnetics and Mechanics*, Vol. 19, Nos. 1–4, pp. 103–109, 2004 (**JOUR INT**).

69. E.T. Martin, R.A. Hassan and W.A. Crossley, "Comparing the N-branch genetic algorithm and the multi-objective genetic algorithm", *AIAA Journal*, Vol. 42, No. 7, pp. 1495–1500, July 2004 (**JOUR INT**).

70. Darby E. Grande, "Asset Replacement Considering Environmental and Economic Objectives", PhD thesis, Department of Industrial and Operations Engineering, The University of Michigan, 2004 (**TES DOC**).

71. Steve Uhlig, "Implications of Traffic Characteristics on Interdomain Traffic Engineering", PhD thesis, Département d'Ingénierie Informatique de l'Université Catholique de Louvain, Belgium, March 2004 (**TES DOC**).

72. Yann Collette and Patrick Siarry, "Multiobjective Optimization. Principles and Case Studies", Springer, Berlin, 2003, ISBN 3-540-40182-2, página 47, página 71 y página 131 (**LIB ING**).

73. J.M. de la Cruz, B. de Andres-Toro, A. Herrán, E. Besada Porta and P. Fernandez Blanco, "Multiobjective Optimization of the Transport in Oil Pipelines", in *Proceedings of the 9th IEEE International Conference on Emerging Technologies and Factory Automation*, pp. 566–573, Vol. 1, Lisbon, Portugal, September 2003 (**CONG INT**).

74. Hui Li, Qingfu Zhang, Edward Tsang, and John A. Ford, "Hybrid Estimation of Distribution Algorithm for Multiobjective Knapsack Problem", in Jens Gottlieb and Günter R. Raidl (editors), *Evolutionary Computation in Combinatorial Optimization, Proceedings of the 4th European Conference, EvoCOP 2004*, Springer, pp. 145–154, Lecture Notes in Computer Science, Vol. 3004, April 2004 (**CONG INT**).

75. Edwin D. de Jong and Jordan B. Pollack, "Ideal Evaluation from Coevolution", *Evolutionary Computation*, Vol. 12, No. 2, pp. 159–192, Summer 2004 (**JOUR INT**).

76. S.Y. Yang, J.R. Cardoso, S.L. Ho, P.H. Ni, J.M. Machado and E.W.C. Lo, "An improved tabu-based vector optimal algorithm for design optimizations of electromagnetic devices", *IEEE Transactions on Magnetics*, Vol. 40, No. 2, pp. 1140–1143, Part 2, March 2004 (**JOUR INT**).

77. K.C. Tan, T.H. Lee and E.F. Khor, "Automatic design of multi-variable quantitative feedback theory control systems via evolutionary computation", *Proceedings of the Institution of Mechanical Engineers Part I—Journal of Systems and Control Engineering*, Vol. 215, No. I3, pp. 245–259, 2001 (**JOUR INT**).

78. X. Llorà, D.E. Goldberg, I. Traus and E. Bernadó, "Accuracy, parsimony, and generality in evolutionary learning systems via multiobjective selection", in *Learning Classifier Systems*, Lecture Notes in Artificial Intelligence Vol. 2661, pp. 118–142, 2002 (**CONG INT**).

79. F. de Toro, E. Ros, S. Mota and J. Ortega, "Multi-objective optimization evolutionary algorithms applied to paroxysmal atrial fibrillation diagnosis based on the k-nearest neighbours classifier", *Advances in Artificial Intelligence—IBERAMIA 2002, Proceedings*, pp. 313–318, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 2527, 2002 (**CONG INT**).

80. D.X.M. Zheng, S.T. Ng and M.M. Kumaraswamy, "Applying a genetic algorithm-based multiobjective approach for time-cost optimization", *Journal of Construction Engineering and Management–ASCE*, Vol. 130, No. 2, pp. 168–176, March-April 2004 (**JOUR INT**).

81. Shengwu Xiong and Feng Li, "Parallel Strength Pareto Multi-objective Evolutionary Algorithm for Optimization Problems", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 4, pp. 2712–2718, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

82. J.M. Malard, A. Heredia-Langner, D.J. Baxter, K.H. Jarman and W.R. Cannon, "Constrained De Novo Peptide Identification via Multi-objective Optimization", in *Online Proceedings of the Third IEEE International Workshop on High Performance Computational Biology (HiCOMB 2004)*, Santa Fe, New Mexico, April 26, 2004 (**CONG INT**).

83. Vincenzo Cutello and Giuseppe Nicosia, "An immunological approach to combinatorial optimization problems", *Advances in Artificial Intelligence—IBERAMIA 2002, Proceedings*, pp. 361–370, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 2527, 2002 (**CONG INT**).

84. T.L. Veith, M.L. Wolfe and C.D. Heatwole, "Optimization procedure for cost effective BMP placement at a watershed scale", *Journal of the American Water Resources Association*, Vol. 39, No. 6, pp. 1331–1343, December 2003 (**JOUR INT**).

85. Renaud Séguier and Nicolas Cladel, "Multiobjectives Genetic Snakes: Application on Audio-Visual Speech Recognition", in *Proceedings of the 4th EURASIP Conference focused on Video/Image Processing and Multimedia Communications (EC-VIP-MC 2003)*, Zagreb, Croacia, Julio 2003 (**CONG INT**).

86. Pål Sætrom and Magnus Lie Hetland, "Multiobjective Evolution of Temporal Rules", in *Proceedings of the 8th Scandinavian Conference on Artificial Intelligence*, IOS Press, Bergen, Norway, November 2003 (**CONG INT**)

87. John Atkinson-Abutridy, Chris Mellish and Stuart Aitken, "A Semantically Guided and Domain-Independent Evolutionary Model for Knowledge Discovery From Texts", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 6, pp. 546–560, December 2003 (**JOUR INT**).

88. S. Dedieu, L. Pibouleau, C. Azzaro-Pantel and S. Domenech, "Design and retrofit of multiobjective batch plants via a multicriteria genetic algorithm", *Computers & Chemical Engineering*, Vol. 27, No. 12, pp. 1723–1740, December 15, 2003 (**JOUR INT**).

89. Edwin D. De Jong and Jordan B. Pollack, "Multi-Objective Methods for Tree Size Control", *Genetic Programming and Evolvable Machines*, Vol. 4, No. 3, pp. 211–233, September 2003 (**JOUR INT**).

90. Christian Blum and Aandrea Roli, "Metaheuristics in Combinatorial Optimization: Overview and Conceptual Comparison", *ACM Computing Surveys*, Vol. 35, No. 3, pp. 268–308, September 2003 (**JOUR INT**).

91. Ningchuan Xiao and Marc P. Armstrong, "A Specialized Island Model and Its Application in Multiobjective Optimization", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part II*, pp. 1530–1540, Springer. Lecture Notes in Computer Science Vol. 2724, July 2003 (**CONG INT**).

92. Francisco de Toro, Eduardo Ros, Sonia Mota and Julio Ortega, "Non-invasive Atrial Disease Diagnosis Using Decision Rules: A Multi-objective Optimization Approach", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 638–647, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

93. S.L. Ho and S.Y. Yang, H.C. Wong and G.Z. Ni, "A simulated annealing algorithm for multiobjective optimizations of electromagnetic devices", *IEEE Transactions on Magnetics*, Vol. 39, No. 3, pp. 1285–1288, Part 1, May 2003 (**JOUR INT**).

94. P. Lacomme, C. Prins and M. Sevaux, "Multiobjective Capacitated Arc Routing Problem", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 550–564, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

95. Peter F. Stadler and Christoph Flamm, "Barrier Trees on Poset-Valued Landscapes", *Genetic Programming and Evolvable Machines*, Volume 4, No. 1, pp. 7–20, March 2003 (**JOUR INT**).

96. Tamie Lynne Veith, "Agricultural BMP Placement for Cost-Effective Pollution Control at the Watershed Level", PhD Thesis, Virginia Polytechnic Institute and State University, Biological Systems Engineering, Blacksburg, Virgina, April 2002 (**TES DOC**).

97. O. Nicolotti, V.J. Gillet, P.J. Fleming and D.V.S. Green, "Multiobjective optimization in quantitative structure-activity relationships: Deriving accurate and interpretable QSARs", *Journal of Medicinal Chemistry*, Vol. 45, No. 23, pp. 5069–5080, November 7, 2002 (**JOUR INT**)

98. Nicolas Jozefowiez, Frédéric Semet and El-Ghazali Talbi, "Parallel and Hybrid Models for Multi-objective Optimization: Application to the Vehicle Routing Problem", in Juan Julián Merelo Guervós, Panagiotis Adamidis,

Hans-Georg Beyer, José-Luis Fernández-Villacañas and Hans-Paul Schwefel (eds), *Parallel Problem Solving from Nature—PPSN VII*, Springer, Lecture Notes in Computer Science Volume 2439, pp. 271–280, Granada, Spain, September 2002 (**CONG INT**).

99. E.F. Khor, K.C. Tan, M.L. Wang and T.H. Lee, "Evolutionary Algorithm with Dynamic Population Size for Multi-Objective Optimization", *26th Annual Conference of the IEEE Industrial Electronics Society*, pp. 1686–1691, Vol. 3, IEEE, 2000 (**CONG INT**).
100. N.C. Xiao, D.A. Bennet and M.P. Armstrong, "Using evolutionary algorithms to generate alternatives for multiobjective site-search problems", *Environment and Planning A*, Vol. 34, No. 4, pp. 639–656, April 2002 (**JOUR INT**).
101. Abhishek Roy, Nilanjan Banerjee and Sajal K. Das, "An Efficient Multi-Objective QoS Routing Algorithm for Real-Time Wireless Multicasting", in Preston Jackson (editor), *IEEE Semiannual Vehicular Technology Conference*, Volume 3, pp. 1160–1164, IEEE, Birmingham, Alabama, May 2002 (**CONG INT**).
102. Matthias Ehrgott and Xavier Gandibleux, "Multiobjective Combinatorial Optimization—Theory, Methodology, and Applications", in Matthias Ehrgott and Xavier Gandibleux (editors), *Multiple Criteria Optimization: State of the Art Annotated Bibliographic Surveys*, pp. 369–444, Kluwer Academic Publishers, Boston, 2002 (**CAP LIB**).
103. A. Heredia-Langner, D.C. Montgomery, and W.M. Carlyle, "Solving a multistage partial inspection problem using genetic algorithms", *International Journal of Production Research*, Vol. 40, No. 8, pp. 1923–1940, May 2002 (**JOUR INT**).
104. David Santo Orcero, *Simulación y Optimización Paralela de Agregados del Silicio*, Tesis de Maestría, Universidad de Málaga, Málaga, España, mayo de 2002 (**TES MAE**).
105. V. J. Gillet, W. Khatib, P. Willett, P.J. Fleming, and D.V.S. Green, "Combinatorial library design using a multiobjective genetic algorithm", *Journal of Chemical Information and Computer Sciences*, Vol. 42, No. 2, pp. 375-385 March-April 2002. (**JOUR INT**)
106. Francisco de Toro, Antonio F. Díaz, Consolación Gil y Julio Ortega, "Un algoritmo evolutivo elitista para optimización multiobjetivo", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 472–478, 2002, ISBN 84-607-3913-9. (**CONG INT**)
107. K.C. Tan, E.F. Khor, C.M. Heng and T.H. Lee, "Exploratory Multi-Objective Evolutionary Algorithm: Performance Study and Comparisons, in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt,

Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 647–654, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

108. K.C. Tan, T.H. Lee and E.F. Khor, "Evolutionary Algorithms for Multi-Objective Optimization: Performance Assessments and Comparisons", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 979–986, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

109. E.F. Khor, K.C. Tan & T.H. Lee, "Multi-Objective Evolutionary Algorithm with Non-Stationary Search Space", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 1, pp. 527–535, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

110. E.F. Khor, K.C. Tan & T.H. Lee, "Tabu-Based Exploratory Evolutionary Algorithm for Effective Multi-objective Optimization", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 344–358, Marzo de 2001. (**CONG INT**)

111. K.C. Tan, T.H. Lee & E.F. Khor, "Incrementing Multi-objective Evolutionary Algorithms: Performance Studies and Comparisons", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 111–125, Marzo de 2001. (**CONG INT**)

112. Dragan Cvetković and Ian C. Parmee. "Genetic Algorithm-based Multiobjective Optimization and Conceptual Engineering Design", *Proceedings of the 1999 Congress on Evolutionary Computation (CEC'99)*, IEEE Service Center, pp. 29–36, Volume 1, July 6-9, Washington, D.C., 1999. (**CONG INT**)

113. Martijn Neef, Dirk Thierens and Henryck Arciszewski. "A Case Study of a Multiobjective Recombinative Genetic Algorithm with Coevolutionary Sharing"', *Proceedings of the 1999 Congress on Evolutionary Computation, (CEC'99)*, IEEE Service Center, pp. 796–803, Volume 1, July 6-9, Washington, D.C., 1999. (**CONG INT**)

114. Matthias Ehrgott and Xavier Gandibleux, "A Survey and Annotated Bibliography of Multiobjective Combinatorial Optimization", *OR Spektrum*, Vol. 22, pp. 425–460, 2000. (**JOUR INT**)

115. Herve Meunier; El-Ghazali Talbi and Philippe Reininger. "A multiobjective genetic algorithm fo radio network optimization", In *2000 Congress on Evolutionary Computation*, pp. 317–324, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

- **Carlos A. Coello Coello. "A Comprehensive Survey of Evolutionary-Based Multiobjective Optimization Techniques",** ***Knowledge and Information Systems*****, Springer-Verlag, Vol. 1, No. 3, pp. 269–308, August 1999.**

    1. Pascal Cote, Lael Parrott and Robert Sabourin, "Multi-objective optimization of an ecological assembly model", *Ecological Informatics*, Vol. 2, No. 1, pp. 23–31, January 1, 2007.
    2. Samya Elaoud, Jacques Teghem and Bassem Bouaziz, "Genetic algorithms to solve the cover printing problem", *Computers & Operations Research*, Vol. 34, No. 11, pp. 3346–3361, November 2007.
    3. M. Abido, "Multiobjective Optimal VAR Dispatch Using Strength Pareto Evolutionary Algorithm", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 2745–2751, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
    4. Sahnan A. Khan and Andries P. Engelbrecht, "A new fuzzy operator and its application to topology design of distributed local area networks", *Information Sciences*, Vol. 177, No. 13, pp. 2692–2711, July 1, 2007.
    5. Semya Elaoud, Taicir Loukil and Jacques Teghem, "The Pareto fitness genetic algorithm: Test function study", *European Journal of Operational Research*, Vol. 177, No. 3, pp. 1703–1719, March 16, 2007.
    6. Elizabeth F.G. Goldbarg, Givanaldo R. de Souza and Marc C. Goldbarg, "Particle Swarm Optimization for the Bi-objective Degree-constrained Minimum Spanning Tree", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 1527–1534, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
    7. Gideon Avigad, "Search and Selection of Concepts in Multi-objective Engineering Problems Using Evolutionary Algorithms", PhD thesis, The Iby and Aladar Fleischman Faculty of Engineering, The Zandman-Slaner Graduate School of Engineering, Tel Aviv University, Israel, November 2006 (**TES DOC**).
    8. C. K. Goh and K. C. Tan, "An Investigation on Noisy Environments in Evolutionary Multiobjective Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 11, No. 3, pp. 354–381, June 2007.
    9. K. Atashkari, N. Nariman-Zadeh, M. Golcu, A. Khalkhali and A. Jamali, "Modelling and multi-objective optimization of a variable valve-timing spark-ignition engine using polynomial neural networks and evolutionary algorithms", *Energy Conversion and Management*, Vol. 48, No. 3, pp. 1029–1041, March 2007.
    10. Hisao Ishibuchi and Yusuke Nojima, "Analysis of interpretability-accuracy tradeoff of fuzzy systems by multiobjective fuzzy genetics-based machine learning", *International Journal of Approximate Reasoning*, Vol. 44, No. 1, pp. 4–31, January 2007.

11. L. Grandinetti, F. Guerriero, G. Lepera and M. Mancini, "A niched genetic algorithm to solve a pollutant emission reduction problem in the manufacturing industry: A case study", *Computers & Operations Research*, Vol. 34, No. 7, pp. 2191–2214, July 2007.
12. M. Ali-Tavoli, N. Nariman-Zadeh, A. Khakhali and M. Mehran, "Multi-objective optimization of abrasive flow machining processes using polynomial neural networks and genetic algorithms", *Machining Science and Technology*, Vol. 10, No. 4, pp. 491–510, October-December 2006.
13. Amiram Moshaiov and Gideon Avigad, "Concept-based IEC for Multi-objective Search with Robustness to Human Preference Uncertainty", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6784–6791, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
14. Christos Dimopoulos, "Evolutionary Optimization in Production Research", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 483–497, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).
15. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
16. Tomonari Furukawa, Chen Jian Ken Lee and John G. Michopoulos, "Regularization for Parameter Identification Using Multi-Objective Optimization", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 125–149, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
17. Andrew Lewis, "Parallel Optimisation Algorithms for Continuous, Non-Linear Numerical Simulations", PhD thesis, School of Computing and Information Technology, University of Newcastle, Brisbane, Australia, 2004 (**TES DOC**)
18. Jacob Wronski, "A Design Tool Architecture for the Rapid Evaluation of Product Design Tradeoffs in an Internet-based System Modeling Environment", PhD thesis, Department of Mechanical Engineering, Massachusetts Institute of Technology, May 2005 (**TES DOC**).
19. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "Mapping Cores on Network-on-Chip", *International Journal of Computational Intelligence Research*, Vol. 1, No. 2, pp. 109–126, 2005 (**JOUR INT**).
20. Liu Guoquan, "Modelling and Scheduling of Hetereogeneous Computing Systems", PhD thesis, Department of Industrial and Systems Engineering, National University of Singapore, Singapore, 2005 (**TES DOC**).
21. Matthias Ehrgott and Margaret M. Wiecek, "Multiobjective Programming", in José Figueira, Salvatore Greco and Matthias Ehrgott (editors), *Multiple Criteria Decision Analysis. State of the Art Surveys*, pp. 667–722, Springer, New York, USA, 2005 (**CAP LIB**).

22. Brahim Rekiek and Alain Delchambre, "Assembly Line Design. The Balancing of Mixed-Model Hybrid Assembly Lines with Genetic Algorithms", Springer, 2006, ISBN 1-84628-112-1 (**LIB ING**).

23. Hakim Mabed, Alexandre Caminada and Jin-Kao Hao, "Impact of tradeoff between blocking and interference on TDMA cell capacity planning", *International Journal on Mobile Network Design and Innovation*, Vol. 1, No. 1, pp. 24–33, 2005.

24. Ingo Mierswa and Michael Wurst, "Information Preserving Multi-Objective Feature Selection for Unsupervised Learning", in Maarten Keijzer et al. (editors), *2006 Genetic and Evolutionary Computation Conference (GECCO'2006)*, pp. 1545–1552, Vol. 2, ACM Press, Seattle, Washington, USA, July 2006, ISBN 1-59593-186-4.

25. Yao Wang and Mark Wineberg, "Estimation of evolvability genetic algorithm and dynamic environments", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 4, pp. 355–382, December 2006.

26. B. Suman and P. Kumar, "A survey of simulated annealing as a tool for single and multiobjective optimization", *Journal of the Operational Research Society*, Vol. 57, No. 10, pp. 1143–1160, October 2006.

27. Soo-Yong Shin, "Multi-Objective Evolutionary Optimization of DNA Sequences for Molecular Computing", PhD thesis, School of Computer Science and Engineering, Seoul National University, Seoul, South Korea, August 2005 (**TES DOC**).

28. B. Qian, L. Wang, D.X. Huang and X. Wang, "Multi-objective flow shop scheduling using differential evolution", *Intelligent Computing in Signal Processing and Pattern Recognition*, Springer-Verlag, pp. 1125–1136, Lecture Notes in Control and Information Sciences Vol. 345, 2006.

29. Franciszek Seredynski, "Evolutionary Paradigms", in Albert Y. Zomaya (editor), *Handbook of Nature-Inspired and Innovative Computing. Integrating Classical Models with Emerging Technologies*, Chapter 4, pp. 111–145, Springer, USA, ISBN 0-387-40532-1 (**CAP LIB**).

30. D. Salazar, C.M. Rocco and B.J. Galvan, "Optimization of constrained multiple-objective reliability problems using evolutionary algorithms", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 1057–1070, September 2006.

31. Hylke W. van Dijk, "Democratic Processing. Mastering the Complexity of Communicating Systems", PhD thesis, Delft University of Technology, The Netherlands, November 2004 (**TES DOC**).

32. A. Konak, D.W. Coit and A.E. Smith, "Multi-objective optimization using genetic algorithms: A tutorial", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 992–1007, September 2006.

33. Peter Michael Hollingsworth, "Requirements Controlled Design: A Method for Discovery of Discontinuous System Boundaries in the Requirements

Hyperspace", PhD thesis, Georgia Institute of Technology, School of Aerospace Engineering, March 2004 (**TES DOC**).

34. Richard Orison Day, "Explicit Building Block Multiobjective Evolutionary Computation: Methods and Application", PhD thesis, Air Force Institute of Technology, AFIT/ENG, BLDG 642, 2950 Hobson Way, WPAFB (Dayton) OH 45433-7765, USA, June 2005 (**TES DOC**)
35. Richard M. Everson and Jonathan E. Fieldsend, "Multi-Objective Optimisation for Receiver Operating Characteristic Analysis", in Yaochu Jin (editor), *Multi-Objective Machine Learning*, pp. 533–556, Springer. Studies in Computational Intelligence, Volume 16, 2006.
36. Jonathan E. Fieldsend, "Regression Error Characteristic Optimisation of Non-Linear Models", in Yaochu Jin (editor), *Multi-Objective Machine Learning*, pp. 103–123, Springer. Studies in Computational Intelligence, Volume 16, 2006.
37. Michelle J. Fisher, Jonathan E. Fieldsend and Richard M. Everson, "Precision and Recall Optimisation for Information Access Tasks", in *Proceedings of ROCAI 2004, part of the 16th European Conference on Artificial Intelligence*, pp. 45–54, Valencia, Spain, August 2004 (**CONG INT**).
38. J.P. Ponthot and J.P. Kleinermann, "A cascade optimization methodology for automatic parameter identification and shape/process optimization in metal forming simulation", *Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 41–43, pp. 5472–5508, 2006.
39. M. Ma, L.B. Zhang, J. Ma and C.G. Zhou, "Fuzzy neural network optimization by a particle swarm optimization algorithm", *Advances in Neural Networks–ISSN 2006*, Part 1, pp. 752–761, Springer, Lecture Notes in Computer Science Vol. 3971, 2006.
40. N. Nariman-Zadeh, A. Darvizeh and A. Jamali, "Pareto optimization of energy absorption of square aluminium columns using multi-objective genetic algorithms", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 2, pp. 213–224, February 2006.
41. Vijay Pratap Singh, Marc Schoenauer, and Michael Làer, "A geologically-sound representation for evolutionary multi-objective subsurface identification", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2325–2332, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
42. Nasreddine Hallam, Peter Blanchfield, and Graham Kendall, "Handling Diversity in Evolutionary Multiobjective Optimisation", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2233–2240, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
43. D.A.M. Rocha, E.F. Goldbarg and M.C. Goldbarg, "A memetic algorithm for the biobjective minimum spanning tree problem", *Evolutionary Computation in Combinatorial Optimization*, pp. 222–233, Springer, Lecture Notes in Computer Science, Vol. 3906, 2006.

44. R.M. Everson and J.E. Fieldsend, “Multi-class ROC analysis from a multi-objective optimisation perspective”, *Pattern Recognition Letters*, Vol. 27, No. 8, pp. 918–927, June 2006.

45. B. Gaal, I. Vassanyi and G. Kozmann, “A novel artificial intelligence method for weekly dietary menu planning”, *Methods of Information in Medicine*, Vol. 44, No. 5, pp. 655–664, 2005.

46. K.C. Tan, C.K. Goh, Y.J. Yang and T.H. Lee, “Evolving better population distribution and exploration in evolutionary multi-objective optimization”, *European Journal of Operational Research*, Vol. 171, No. 2, pp. 463–495, June 1, 2006.

47. K.C. Tan, Y.H. Chew and L.H. Lee, “A hybrid multiobjective evolutionary algorithm for solving vehicle routing problem with time windows”, *Computational Optimization and Applications*, Vol. 34, No. 1, pp. 115–151, May 2006.

48. K.C. Tan, Y.H. Chew and L.H. Lee, “A hybrid multi-objective evolutionary algorithm for solving truck and trailer vehicle routing problems”, *European Journal of Operational Research*, Vol. 172, No. 3, pp. 855–885, August 1st, 2006.

49. Richard M. Everson and Jonathan E. Fieldsend, “Multiobjective Optimization of Safety Related Systems: An Application to Short-Term Conflict Alert”, *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 2, pp. 187–198, April 2006.

50. X. Yao and Y. Xu, “Recent advances in evolutionary computation”, *Journal of Computer Science and Technology*, Vol. 21, No. 1, pp. 1–18, January 2006.

51. Xiaolin Hu, Zhongfan Wang and Lianying Liao, “Multi-Objective Optimization of HEV Fuel Economy and Emissions using Evolutionary Computation”, in *Proceedings of the Society of Automotive Engineering World Congress 2004, Electronics Simulation and Optimization (SP-1856)*, pp. 117–128, Society of Automotive Engineers, Detroit, Michigan, USA, March 2004 (**CONG INT**).

52. Yilmaz Arslanoğlu, “Genetic Algorithm for Personnel Assignment Problem with Multiple Objectives”, Masters thesis, The Graduate School of Natural and Applied Sciences of Middle East Technical University, Turkey, Janaury 2006 (**TES MAES**).

53. D. De, S. Ray, A. Konar and A. Chatterjee, “An evolutionary SPDE breeding-based hybrid particle swarm optimizer: Application in coordination of robot ants for camera coverage area optimization”, in *Pattern Recognition and Machine Intelligence, Proceedings*, pp. 413–416, Springer, Lecture Notes in Computer Science Vol. 3776, 2005.

54. M. Sprogar, M. Sprogar and M. Colnaric, “Autonomous evolutionary algorithm in medical data analysis”, *Computer Methods and Programs in Biomedicine*, Vol. 80, pp. S29–S38, Suppl. 1, December 2005.

55. Feng Xue, Arthur C. Sanderson and Robert J. Graves, "Multi-objective differential evolution - algorithm, convergence analysis, and applications", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 743–750, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.

56. Adam Berry and Peter W. Vamplew, "A Language for Platform Independent Communication and Storage in Multiobjective Optimisation", in M. Negnevitsky (editor), *Proceedings of AISAT2004: International Conference on Artificial Intelligence in Science and Technology*, pp. 308–313, University of Tasmania, Hobart, Australia, November 2004, ISBN 1862952094 (**CONG INT**).

57. Grant Cochenour, Jerad Simon, Sanjoy Das, Anil Pahwa and Surasish Nag, "A Pareto Archive Evolutionary Strategy Based Radial Basis Function Neural Network Training Algorithm for Failure Rate Prediction in Overhead Feeders", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 2127–2132, Vol. 2, ACM Press, New York, USA, June 2005 (**CONG INT**).

58. David Montana and Jason Radi, "Optimizing Parameters of a Mobile Ad Hoc Network Protocol with a Genetic Algorithm", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 1993–1998, Vol. 2, ACM Press, New York, USA, June 2005 (**CONG INT**).

59. Ingo Mierswa, "Incorporating Fuzzy Knowledge Into Fitness: Multiobjective Evolutionary 3D Design of Process Plants", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 1985–1992, Vol. 2, ACM Press, New York, USA, June 2005 (**CONG INT**).

60. C.J.K. Lee, T. Furukawa and S. Yoshimura, "A human-like numerical technique for design of engineering systems", *International Journal for Numerical Methods in Engineering*, Vol. 64, No. 14, pp. 1915–1943, December 14, 2005.

61. Feng Xue, "Multi-Objective Differential Evolution: Theory and Applications", PhD thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2004.

62. K. El-Rayes and K. Hyari, "Optimal lighting arrangements for nighttime highway construction projects", *Journal of Construction Engineering and Management–ASCE*, Vol. 131, No. 12, pp. 1292–1300, December 2005.

63. Praveen Koduru, Sanjoy Das, Stephen Welch, Judith L. Roe and Zenaida P. Lopez-Dee, "A Co-evolutionary Hybrid Algorithm for Multi-Objective Optimization of Gene Regulatory Network Models", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 393–399, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

64. Zbigniew Michalewicz, "Evolutionary Algorithms in Engineering Optimization", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 26–51, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

65. A. Kamiya, S.J. Ovaska, R. Roy and S. Kobayashi, "Fusion of soft computing and hard computing for large-scale plants: a general model", *Applied Soft Computing*, Vol. 5, No. 3, pp. 265–279, March 2005.

66. E.K. Burke and J.D. Landa Silva, "The influence of the fitness evaluation method on the performance of multiobjective search algorithms", *European Journal of Operational Research*, Vol. 169, No. 3, pp. 875–897, March 16, 2006.

67. K. Atashkari, N. Nariman-Zadeh, A. Pilechi, A. Jamali and X. Yao, "Thermodynamic Pareto optimization of turbojet engines using multi-objective genetic algorithms", *International Journal of Thermal Sciences*, Vol. 44, No. 11, pp. 1061–1071, November 2005.

68. Bo Zhao and Yi-jia Cao, "Multiple objective particle swarm optimization technique for economic load dispatch", *Journal of Zhejiang University SCIENCE*, Vol. 6A, No. 5, pp. 420–427, 2005 (**JOUR INT**).

69. J.E.C. Arroyo and V.A. Armentano, "Genetic local search for multi-objective flowshop scheduling problems", *European Journal of Operational Research*, Vol. 167, No. 3, pp. 717–738, December 16, 2005.

70. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

71. C. Setzkorn and R.C. Paton, "On the use of multi-objective evolutionary algorithms for the induction of fuzzy classification rule systems", *Biosystems*, Vol. 81, No. 2, pp. 101–112, August 2005.

72. Ajith Abraham and Lakhmi Jain, "Evolutionary Multiobjective Optimization", in Ajith Abraham, Lakhmi Jain and Robert Goldberg (editors), *Evolutionary Multiobjective Optimization. Theoretical Advances and Applications*, pp. 1–6, Springer, USA, 2005 (**CAP LIB**).

73. Andrés L. Medaglia, "Simulation Optimization Using Soft Computing", PhD thesis, North Carolina State University, USA, 2000 (**TES DOC**).

74. N. Nariman-Zadeh, K. Atashkari, A. Jamali, A. Pilechi and X. Yao, "Inverse modelling of multi-objective thermodynamically optimized turbojet engines using GMDH-type neural networks and evolutionary algorithms", *Engineering Optimization*, Vol. 37, No. 5, pp. 437–462, July 2005.

75. B.V. Babu, P.G. Chakole and J.H.S. Mubeen, "Multiobjective differential evolution (MODE) for optimization of adiabatic styrene reactor", *Chemical Engineering Science*, Vol. 60, No. 17, pp. 4822–4837, September 2005.

76. J. Martin, C. Bielza and D.R. Insua, "Approximating nondominated sets in continuous multiobjective optimization problems", *Naval Research Logistics*, Vol. 52, No. 5, pp. 469–480, August 2005.
77. Daniel Stevens, Sanjoy Das and Bala Natarajan, "A Multi-objective Algorithm for DS-CDMA Code Design Based on the Clonal Selection Principle", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 2, pp. 2015–2020, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.
78. J.H. Chen, H.M. Chen and S.Y. Ho, "Design of nearest neighbor classifiers: multi-objective approach", *International Journal of Approximate Reasoning*, Vol. 40, Nos. 1–2, pp. 3–22, July 2005.
79. Jessica Andrea Carballido, Ignacio Ponzoni and Nélida Beatriz Brignole, "A Novel Application of Evolutionary Computing in Process Systems Engineering", in Günther R. Raidl and Jens Gottlieb (editors), *Evolutionary Computation in Combinatorial Optimization. 5th European Conference, EvoCOP 2005*, pp. 12–22, Springer, Lecture Notes in Computer Science Vol. 3448, Lausanne, Switzerland, March/April 2005.
80. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).
81. Nicolás García-Pedrajas, César Hervás-Martínez and Domingo Ortiz-Boyer, "Cooperative Coevolution of Artificial Neural Network Ensembles for Pattern Classification", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 3, pp. 271–302, June 2005 (**JOUR INT**).
82. A. Dogan and F. Ozguner, "Biobjective scheduling algorithms for execution time-reliability trade-off in heterogeneous computing systems", *Computer Journal*, Vol. 48, No. 3, pp. 300–314, 2005 (**JOUR INT**).
83. S.R. Anderson, V. Kadirkamanathan, A. Chipperfield, V. Sharifi and J. Swithenbank, "Multi-objective optimization of operational variables in a waste incineration plant", *Computers & Chemical Engineering*, Vol. 29, No. 5, pp. 1121–1130, April 15, 2005 (**JOUR INT**).
84. B. Suman, "Study of self-stopping PDMOSA and performance measure in multiobjective optimization", *Computers & Chemical Engineering*, Vol. 29, No. 5, pp. 1131–1147, April 15, 2005 (**JOUR INT**).
85. C. Jiang and C. Wang, "Improved evolutionary programming with dynamic mutation and metropolis criteria for multi-objective reactive power optimisation", *IEE Proceedings–Generation Transmission and Distribution*, Vol. 152, No. 2, pp. 291–294, March 2005 (**JOUR INT**).
86. J.Y. Goulermas, R. Liatsis and T. Fernando, "Strained non linear energy minimization framework for the regularization of the stereo correspondence problem", *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 15, No. 4, pp. 550–565, April 2005 (**JOUR INT**).

87. Juan Carlos Leyva-Lopez and Miguel Angel Aguilera-Contreras, "A Multiobjective Evolutionary Algorithm for Deriving Final Ranking from a Fuzzy Outranking Relation", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 235–249, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

88. M.S. Osman, M.A. Abo-Sinna and A.A. Mousa, "An effective genetic algorithm approach multiobjective resource allocation problems (MORAPs)", *Applied Mathematics and Computation*, Vol. 163, No. 2, pp. 755–768, April 15, 2005 (**JOUR INT**).

89. E.J. Solteiro Pires, P.B. de Moura Oliveira and J.A. Tenreiro Machado, "Multi-objective MaxiMin Sorting Scheme", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 165–175, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

90. Milan Zeleny, "The Evolution of Optimality: De Novo Programming", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 1–13, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

91. J.E. Fieldsend and S. Singh, "Pareto evolutionary neural networks", *IEEE Transactions on Neural Networks*, Vol. 16, No. 2, pp. 338–354, March 2005 (**JOUR INT**).

92. A. Chen, P. Chootinan and S. Pravinvongvuth, "Multiobjective model for locating automatic vehicle identification readers", *Intelligent Transportation Systems and Vehicle-Highway Automation 2004 Transportation Research Record*, Vol. 1886, pp. 49–58, 2004 (**JOUR INT**).

93. Jean-Charles Créput, Abderrafiaa Koukam, Thomas Lissajoux and Alexandre Caminada, "Automatic Mesh Generation for Mobile Network Dimensioning Using Evolutionary Approach", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 1, pp. 18–30, February 2005 (**JOUR INT**).

94. M.A. Abido, "Environmental/Economic Power Dispatch using Multiobjective Evolutionary Algorithms", *IEEE Transactions on Power Systems*, Vol. 18, No. 4, pp. 1529–1537, November 2003 (**JOUR INT**).

95. D. Sarkar and J.M. Modak, "Pareto-optimal solutions for multi-objective optimization of fed-batch bioreactors using nondominated sorting genetic algorithm", *Chemical Engineering Science*, Vol. 60, No. 2, pp. 481–492, January 2005 (**JOUR INT**).

96. B. Baran, C. von Lucken and A. Sotelo, "Multi-objective pump scheduling optimisation using evolutionary strategies", *Advances in Engineering Software*, Inglaterra, Vol. 36, No. 1, pp. 39–47, January 2005 (**JOUR INT**).

97. Mark D. Johnston and Hans-Martin Adorf, "Multi-objective evolutionary optimization", *OR News, the magazine of the German Operations Research Society*, Alemania, Vol. 18, pp. 11–16, July 2003 (**REV DIV**).

98. M. Farina and P. Amato, "Linked interpolation-optimization strategies for multicriteria optimization problems", *Soft Computing–A Fusion of Foundations, Methodologies and Applications*, Springer-Verlag, Vol. 9, No. 1, pp. 54–65, January 2005 (**JOUR INT**).

99. Jian-Hung Chen, "Theory and Applications of Efficient Multi-Objective Evolutionary Algorithms", PhD thesis, Department of Information Engineering and Computer Science, Feng Chia University, Taichung, Taiwan, R.O.C., 2004 (**TES DOC**).

100. Jerzy Balicki, "Adaptive Evolutionary Algorithms for Multiobjective Task Assignments in Distributed Computer Systems", *Foundations of Computing and Decision Sciences*, Vol. 25, No. 4, pp. 231–248, 2000 (**JOUR INT**).

101. Y. Collette, P. Siarry and H.-I. Wong, "A Systematic Comparison of Performance of Various Multiple Objective Metaheuristics Using a Common Set of Analytical Test Functions", *Foundations of Computing and Decision Sciences*, Vol. 25, No. 4, pp. 249–271, 2000 (**JOUR INT**).

102. Shinn-Ying Ho, Li-Sun Shu and Jian-Hung Chen, "Intelligent Evolutionary Algorithms for Large Parameter Optimization Problems", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 6, pp. 522–541, December 2004 (**JOUR INT**).

103. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).

104. M.A. Abido, J.M. Bakhashwain, "Optimal VAR dispatch using a multiobjective evolutionary algorithm", *International Journal of Electrical Power & Energy Systems*, Vol. 27, No. 1, pp. 13–20, January 2005 (**JOUR INT**).

105. R. Filomeno Coelho, PH. Bouillard and H. Bersini, "PAMUC: A New Method to Handle Constraints and Multiobjectivity in Evolutionary Algorithms", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 91–100, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).

106. Jonathan E. Fieldsend and Richard M. Everson, "ROC Optimisation of Safety Related Systems", in *Proceedings of the First Workshop on ROC Analysis in AI*, pp. 37–44, Valencia, Spain, August 2004 (**CONG INT**).

107. Amitabha Mukerjee, Rita Biswas, Kalyanmoy Deb and Amrit P. Mathur, "Multi-objective evolutionary algorithms for the risk-return trade-off in bank-load management", *International Transactions in Operational Research*, Vol. 9, No. 5, pp. 583–597, September 2002 (**JOUR INT**).

108. Jiachuan Wang and Janis P. Terpenny, "Interactive Preference Incorporation in Evolutionary Engineering Design", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 525–543, Berlin Heidelberg, 2005, ISBN 3-540-22902-7 (**CAP LIB**).

109. Vinícius Amaral Armentano and José Elias Claudio, "An Application of a Multi-Objective Tabu Search Algorithm to a Bicriteria Flowshop Problem", *Journal of Heuristics*, Vol. 10, No. 5, pp. 463–481, September 2004 (**JOUR INT**).

110. Carlos C.H. Borges and Helio J.C. Barbosa, "Obtaining a Restricted Pareto Front in Evolutionary Multiobjective Optimization", *Foundations of Computing and Decision Sciences*, Vol. 26, No. 1, pp. 5–21, 2001 (**JOUR INT**).

111. Sanghamitra Bandyopadhyay, Sankar K. Pal and B. Aruna, "Multiobjective GAs, Quantitative Indices, and Pattern Classification", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 34, No. 5, pp. 2088–2099, October 2004 (**JOUR INT**).

112. Praveen Koduru, Sanjoy Das, Stephen Welch and Judith L. Roe, "A Multiobjective GA-Simplex Hybrid Approach for Gene Regulatory Network Models", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 2084–2091, Portland, Oregon, USA, June 2004 (**CONG INT**).

113. Zbigniew Michalewicz and David B. Fogel, "How to Solve It: Modern Heuristics", Springer, Second, Revised and Extended Edition, Berlin, 2004, ISBN 3-540-22494-7, página 457 (**LIB ING**).

114. Matthias Ehrgott and Xavier Gandibleux, "Approximative Solution Methods for Multiobjective Combinatorial Optimization", *Top*, Vol. 12, No. 1, pp. 1–89, June 2004 (**JOUR INT**).

115. Tatsuya Okabe, "Evolutionary Multi-Objective Optimization - On the Distribution of Offspring in Parameter and Fitness Space -", PhD thesis, Bielefeld University, Germany, 2004 (**TES DOC**).

116. Christos Dimopoulos, "A Review of Evolutionary Multiobjective Optimization Applications in the Area of Production Research", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1487–1494, Portland, Oregon, USA, June 2004 (**CONG INT**).

117. Brent E. Eskridge and Dean F. Hougen, "Imitating Success: A Memetic Crossover Operator for Genetic Programming", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 809–815, Portland, Oregon, USA, June 2004 (**CONG INT**).

118. Anthony Chen, Piya Chootinan and Surachet Pravinvongvuth, "An Evolutionary Approach for Finding Optimal Automatic Vehicle Identification Reader Locations in Transportation Networks", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 181–187, Portland, Oregon, USA, June 2004 (**CONG INT**).

119. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A GA-Based Design Space Exploration Framework for Parameterized System-On-A-Chip Platforms", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 4, pp. 329–346, August 2004 (**JOUR INT**).

120. Kevin I. Smith, Richard M. Everson and Jonathan E. Fieldsend, "Dominance Measures for Multi-Objective Simulated Annealing", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 23–30, Portland, Oregon, USA, June 2004 (**CONG INT**).

121. Ruhul Sarker and Hussein A. Abbass, "Differential evolution for solving multiobjective optimization problems", *Asia-Pacific Journal of Operational Research*, Vol. 21, No. 2, pp. 225–240, June 2004 (**JOUR INT**).

122. Antonio J. Nebro, Enrique Alba y Francisco Luna, "Optimización Multi-Objetivo y Computación Grid", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 365–372, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).

123. Talib Hussain, David Montana and Gordon Vidaver, "Evolution-Based Deliberative Planning for Cooperating Unmanned Ground Vehicles in a Dynamic Environment", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part II*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 1017–1029, Seattle, Washington, USA, June 2004 (**CONG INT**).

124. Brent E. Eskridge and Dean F. Hougen, "Memetic Crossover for Genetic Programming: Evolution Through Imitation", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part II*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 459–470, Seattle, Washington, USA, June 2004 (**CONG INT**).

125. I. Alberto and P.M. Mateo, "Representation and management of MOEA populations based on graphs", *European Journal of Operational Research*, Vol. 159, No. 1, pp. 52–65, November 2004 (**JOUR INT**).

126. Li-Sun Shu, Shinn-Jang Ho, Shinn-Ying Ho, Jian-Hung Chen and Ming-Hao Hung, "A Novel Multi-objective Orthogonal Simulated Annealing Algorithm for solving Multi-objective Optimization Problems with a Large Number of Parameters", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 737–747, Seattle, Washington, USA, June 2004 (**CONG INT**).

127. E.J. Solteiro Pires, J.A. Tenreiro Machado and P.B. de Moura Oliveira, "Robot Trajectory Planning Using Multiobjective Genetic Algorithm Optimization", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary*

Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 615–626, Seattle, Washington, USA, June 2004 (**CONG INT**).

128. V. Kelner and O. Leonard, "Application of genetic algorithms to lubrication pump stacking design", *Journal of Computational and Applied Mathematics*, Vol. 168, Nos. 1–2, pp. 255–265, July 1, 2004 (**JOUR INT**).
129. Meng Hongyun and Liu Sanyang, "ISPEA: Improvement for the Strength Pareto Evolutionary Algorithm for Multiobjective Optimization with Immunity", in *Proceedings of the Fifth International Conference on Computational Intelligence and Multimedia Applications (ICCIMA'03)*, pp. 368–372, IEEE Computer Society, September 2003 (**CONG INT**).
130. Harry C.S. Rughooputh and Robert T.F. Ah King, "Environmental/Economic Dispatch of Thermal Units using an Elitist Multiobjective Evolutionary Algorithm", in *Proceedings of the 2003 IEEE International Conference on Industrial Technology (ICIT 2003)*, Vol. 1, pp. 48–53, IEEE, Maribor, Slovenia, December 2003 (**CONG INT**).
131. Praveen Koduru, Sanjoy Das, Stephen Welch and Judith L. Roe, "Fuzzy Dominance Based Multi-objective GA-Simplex Hybrid Algorithms Applied to Gene Network Models", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 356–367, Seattle, Washington, USA, June 2004 (**CONG INT**).
132. M. Nemec, D.W. Zingg, T.H. Pulliam, "Multipoint and multi-objective aerodynamic shape optimization", *AIAA Journal*, Vol. 42, No. 6, pp. 1057–1065, June 2004 (**JOUR INT**).
133. A. Ghosh and B. Nath, "Multi-objective rule mining using genetic algorithms", *Information Sciences*, Vol. 163, Nos. 1–3, pp. 123–133, June 14, 2004 (**JOUR INT**).
134. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).
135. Eduardo José Solteiro Pires, Paulo B. de Moura Oliveira and José António Tenreiro Machad, "Multi-objective Genetic Manipulator Trajectory Planner", in Günther R. Raidl et al. (editors), *Applications of Evolutionary Computing. Proceedings of Evoworkshops 2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, and EvoSTOC*, Springer. Lecture Notes in Computer Science, Volume 3005, pp. 219–229, Coimbra, Portugal, April 2004 (**CONG INT**).
136. Jacob T. Jackson, Gregg H. Grunsch, Roger L. Claypoole Jr. and Gary B. Lamont, "Blind Steganography Detection Using a Computational Immune System: A Work in Progress", *International Journal of Digital Evidence*, Vol. 4, No. 1, Winter 2003 (**JOUR INT**).

137. Yuri Bykov, "Time-Predefined and Trajectory-Based Search: Single and Multiobjective Approaches to Exam Timetabling", PhD thesis, University of Nottingham, UK, November 2003 (**TES DOC**).

138. Jesus Dario Landa Silva, "Metaheuristic and Multiobjective Approaches for Space Allocation", PhD thesis, School of Computer Science and Information Technology, University of Nottingham, UK, November 2003 (**TES DOC**).

139. Bruno Pinaud, Pascale Kuntz and Rémi Lehn, "Dynamic Graph Drawing with a Hybridized Genetic Algorithm", in I.C. Parmee (editor), *Adaptive Computing in Design and Manufacture VI*, pp. 365–375, Springer, London, 2004 (**CONG INT**).

140. M. Parrilla Sánchez and J. Aranda Almansa, "A Real Application Example of a Control Structure Selection by Means of a Multiobjective Genetic Algorithm", in José Mira and José R. Álvarez (Eds.), *Artificial Neural Nets Problem Solving Methods, 7th International Work-Conference on Artificial and Natural Neural Networks, IWANN'2003. Proceedings, Part II*, pp. 369–376, Springer, Lecture Notes in Computer Science, Vol. 2687, Maó, Menorca, Spain, June 3-6, 2003 (**CONG INT**).

141. M.H. Hennessy and A.M. Kelley, "Using real-valued multi-objective genetic algorithms to model molecular absorption spectra and Raman excitation profiles in solution", *Physical Chemistry Chemical Physics*, Vol. 6, No. 6, pp. 1085–1095, March 21, 2004 (**JOUR INT**).

142. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).

143. Hernán Eduardo Aguirre Durán, "Generational Parallel Varying Mutation GAs and their Applications", PhD thesis, Shinshu University, Japan, March 2003 (**TES DOC**).

144. S.G. Ponnambalam, "Evolutionary Simulated Hybrid Search Algorithms for Flow Line Scheduling", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 826–830, Vol. 2, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).

145. Jonathan Edward Fieldsend, "Novel Algorithms for Multi-Objective Search and their Application in Multi-Objective Evolutionary Neural Network Training", PhD thesis, Department of Computer Science, University of Exeter, Exeter, UK, June 2003 (**TES DOC**).

146. Anna Lubomirova Blumel, "Robust Fuzzy Autopilot Design Using Multiobjective Optimisation for a Highly Non-linear Missile", PhD thesis, Department of Aerospace, Power & Sensors, Cranfield University, United Kingdom, March 2001 (**TES DOC**).

147. L.B. Zhang, C.G. Zhou, X.H. Liu, Z.Q. Ma and Y.C. Liang, "Solving Multi Objective Optimization Problems Using Particle Swarm Optimization" in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2400–2405, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

148. G. Papa, "An evolutionary approach to chip design: An empirical evaluation", *Informacije Midem–Journal of Microelectronics electronic components and materials*, Vol. 33, No. 3, pp. 142–148, September 2003 (**JOUR INT**).

149. C. Goh and Y. Li, "Multi-Objective Synthesis of CMOS Operational Amplifiers using a Hybrid Genetic Algorithm", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 214–218, Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).

150. Hisao Ishibuchi and Tadashi Yoshida, "Implementation of Local Search in Hybrid Multi-Objective Genetic Algorithms: A Case Study on Flowshop Scheduling", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 193–197, Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).

151. Carlos Alberto Brizuela Rodrguez, "Genetic Algorithms for Shop-scheduling Problems: Partial Enumeration and Stochastic Heuristics", PhD thesis, Kyoto Institute of Technology, Japan, 2000 (**TES DOC**).

152. Robin Charles Purshouse, "On the Evolutionary Optimisation of Many Objectives", PhD thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, September 2003 (**TES DOC**).

153. Ian C. Parmee, *Evolutionary and Adaptive Computing in Engineering Design*, Springer, London, 2001, ISBN 1-85233-029-5, p. 200 (**LIB ING**).

154. Ruhul A. Sarker, Hussein A. Abbass and Charles S. Newton, "Solving Two Multi-Objective Optimization Problems Using Evolutionary Algorithm", in Masoud Mohammadian, Ruhul Amin Sarker and Xin Yao (Editors), *Computational Intelligence in Control*, Chapter XIII, pp. 218–232, Idea Group Publishing, Hershey, Philadelphia, USA, 2003 (**CAP LIB**).

155. Andrew Lewis and David Abramson, "An Evolutionary Programming Algorithm for Multi-Objective Optimisation", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1926–1932, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

156. M. Solimanpur, P. Vrat and R. Shankar, "A multi-objective genetic algorithm approach to the design of cellular manufacturing systems", *International Journal of Production Research*, Vol. 42, No. 7, pp. 1419–1441, April 1, 2004 (**JOUR INT**).

157. Thomas Bartz-Beielstein, Philipp Limbourg, Konstantinos E. Parsopoulos, Michael N. Vrahatis, Jörn Mehnen and Karlheinz Schmitt, "Particle Swarm Optimizers for Pareto Optimization with Enhanced Archiving Techniques", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1780–1787, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

158. Vincent Kelner. "Développement d'un algorithme génétique et application à des problèmes complexes d'optimisation", Masters Thesis, Université de Liège, Faculté des Sciences Appliquées, Département d'Aéronautique, Spatial, Mécanique et Matériaux, Service de Turbomachines et Propulsion, September 2003 (**TES MAE**).

159. Alexandru Cicortaş, "A Particular Genetic Algorithm in Multi-Agent Systems in Manufacturing", *Analele Universităţii de Vest Din Timisoara*, Seria Matematică-Informatică, Vol. XL, pp. 53–63, Special Issue on Computer Science, 2002 (**JOUR INT**).

160. Beatriz de la Iglesia, Mark S. Philpott, Anthony J. Bagnall and Vic J. Rayward-Smith, "Data Mining Using Multi-Objective Evolutionary Algorithms", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1552–1559, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

161. Lamia Belfares and Adel Guitouni, "Multi-objective Genetic Algorithms for Courses of Action Planning", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1543–1551, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

162. Adam Berry and Peter Vamplew, "A Simplified Artificial Life Model for Multiobjective Optimisation: A Preliminary Report", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1331–1339, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

163. Robert T.F. Ah King and Harry C.S. Rughooputh, "Elitist Multiobjective Evolutionary Algorithm for Environmental/Economic Dispatch", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1108–1114, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

164. Lisa Purvis, Steven Harrington, Barry O'Sullivan and Eugene C. Freuder, "Creating personalized documents: an optimization approach", in *Proceedings of the 2003 ACM Symposium on Document Engineering*, pp. 68–77, ACM Press, Grenoble, France, November 2003 (**CONG INT**).

165. Feng Xue, Arthur C. Sanderson and Robert J. Graves, "Pareto-based Multi-Objective Differential Evolution", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 862–869, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

166. Lisa Purvis, "A Genetic Algorithm Approach to Automated Custom Document Assembly", in *Proceedings of the Intelligent Systems Design and*

Applications Conference (ISDA'2002), pp. 131–136, Dynamic Publishers Inc., August 2002 (**CONG INT**).

167. F. Viguier and H. Pierreval, "An approach to the design of a hybrid organization of workshops into functional layout and group technology cells", *International Journal of Computer Integrated Manufacturing*, Vol. 17, No. 2, pp. 108–116, March 2004 (**JOUR INT**).
168. Eduardo Fernández and Juan Carlos Leyva, "A method based on multiobjective optimization for deriving a ranking from a fuzzy preference relation", *European Journal of Operational Research*, Vol. 154, Issue 1, pp. 110–124, April 2004 (**JOUR INT**).
169. Kiam Heong Ang, Gregory Chong and Yun Li, "Visualization Technique for Analyzing Non-Dominated Set Comparison", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 36–40, Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).
170. G.M.B. Oliveira, O.K.N. Asakura and P.P.B. de Oliveira, "Coevolutionary search for one-dimensional cellular automata, based on parameters related to their dynamic behaviour" *Journal of Intelligent & Fuzzy Systems*, Vol. 13, Nos. 2–4, pp. 99–110, 2002 (**JOUR INT**).
171. Mircea Gh. Negoita and Dragos Arotaritei, "A GA with Variable Length Chromosomes for Optimization Objectives of Fuzzy Recurrent NN", in Alwyn Barry (editor), *2003 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 208–213, AAAI, Chicago, Illinois, USA, July 2003 (**CONG INT**).
172. Balram Suman, "Simulated Annealing-Based Multiobjective Algorithms and Their Application for System Reliability", *Engineering Optimization*, Vol. 35, No. 4, pp. 391–416, August 2003 (**JOUR INT**).
173. Mikkel T. Jensen, "Reducing the Run-Time Complexity of Multiobjective EAs: The NSGA-II and Other Algorithms", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 5, pp. 503–515, October 2003 (**JOUR INT**).
174. H.A. Abbass, "Speeding up backpropagation using multiobjective evolutionary algorithms", *Neural Computation*, Vol. 15, No. 11, pp. 2705–2726, November 2003 (**JOUR INT**).
175. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).
176. M.P. Sanchez and J.A. Almansa, "A real application example of a control structure selection by means of a multiobjective genetic algorithm", in *Artificial Neural Nets Problem Solving Methods, Part II*, Springer, Lecture Notes in Computer Science, Volume 2687, pp. 369–376, 2003 (**CONG INT**).

177. Venu G. Gudise and Ganesh K. Venayagamoorthy, "Evolving Digital Circuits Using Particle Swarm", *Proceedings of the INNS-IEEE International Joint Conference on Neural Networks*, pp. 468–472, IEEE Press, Portland, Oregon, USA, July 20-24, 2003 (**CONG INT**).

178. R.M. Hubley, E. Zitzler and J.C. Roach, "Evolutionary algorithms for the selection of single nucleotide polymorphisms", *BMC Bioinformatics*, Vol. 4, Art. No. 30, July 23, 2003 (**JOUR INT**).

179. Y.L. Abdel-Magid and M.A. Abido, "Optimal multiobjective design of robust power system stabilizers using genetic algorithms", *IEEE Transactions on Power Systems*, Vol. 18, No. 3, pp. 1125–1132, August 2003 (**JOUR INT**).

180. Y.H. Kang and Z. Bien, "Introduction of a new concept, age, into the multiobjective evolutionary algorithm in the two dimensional space", *IEICE Transactions on Information and Systems*, Vol. E86D, No. 7, pp. 1304–1309, July 2003 (**JOUR INT**).

181. Zhong-Yao Zhu, "An Evolutionary Approach to Multi-Objective Optimization Problems", PhD thesis, The Chinese University of Hong Kong, August, 2002 (**TES DOC**).

182. Carlos E. Mariano-Romero, "Aprendizaje por Refuerzo en la Solución de Problemas de Optimización con Múltiples Objetivos: Aplicación al Diseño de Redes de Riego", en *XI Congreso Nacional de Irrigación. Simposio 10. Modelación Hidroagrícola*, Guanajuato, México, Septiembre de 2001 (**CONG NAC**).

183. J. Alejandro Rosendo R., Rafael Prieto M., Alberto Herrera B., y Alejandro Padrón G., "Algoritmo Genético Multipoblacional y Multicriterio para el Desarrollo de Clasificadores Neuronales Artificiales", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 245–257, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

184. Rodrigo Aceves y Carlos A. Brizuela, "Análisis Experimental de Operadores Genéticos en NSGA-II para un Problema de Calendarización Multiobjetivo", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 55–66, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

185. Jonathan E. Fieldsend, Richard M. Everson and Sameer Singh, "Using Unconstrained Elite Archives for Multiobjective Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 3, pp. 305–323, June 2003 (**JOUR INT**).

186. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).

187. Kalyanmoy Deb, "Multi-objective Evolutionary Algorithms: Introducing Bias Among Pareto-optimal Solutions", en Ashish Ghosh and Shigeyoshi

Tsutsui (editors), *Advances in Evolutionary Computing. Theory and Applications*, pp. 263–292, Springer, Berlin, 2003, ISBN 3-540-43330-9, página 268 (**CAP LIB**).

188. Carlos A. Brizuela and Rodrigo Aceves, "Experimental Genetic Operators Analysis for the Multi-objective Permutation Flowshop", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 578–592, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

189. Gina M. B. Oliveira, José C. Bortot and Pedro P.B. de Oliveira, "Multiobjective evolutionary search for one-dimensional cellular automata in the density classification task", in R. Standish, M. Bedau and H. Abbass (editors), *Artificial Life VIII: The 8th International Conference on Artificial Life*, pp. 202–206, MIT Press, Cambridge, Massachusetts, 2002 (**CONG INT**).

190. Andrés L. Medaglia and Shu-Chern Fang, "A genetic-based framework for solving (multi-criteria) weighted matching problems", *European Journal of Operational Research*, Vol. 149, No. 1, pp. 77–101, August 2003 (**JOUR INT**).

191. Xiaolin Ren and Barbara Minsker, "Which Groundwater Remediation Objective is Better, a Realistic One or a Simple One?", in *American Society of Civil Engineers (ASCE) Environmental & Water Resources Institute (EWRI) World Water & Environmental Resources Congress 2003 & Related Symposia*, Philadelphia, PA, 2003 (**CONG INT**).

192. Hussein A. Abbass, "A Memetic Pareto Evolutionary Approach to Artificial Neural Networks", in *The Australian Joint Conference on Artificial Intelligence*, Adelaide, Australia, Lecture Notes in Artificial Intelligence Vol. 2256, Springer, pp. 1-12, December 2001 (**CONG INT**).

193. Khaled El-Rayes and Khalied Hyari, "Automated DSS for Lighting Design of Nighttime Operations in Highway Construction Projects", in *Proceedings of the 19th International Symposium on Automation and Robotics in Construction (ISARC)*, pp. 135–140, National Institute of Standards and Technology, Gaithersburg, Maryland, September 2002 (**CONG INT**).

194. Hisao Ishibuchi, Tadashi Yoshida and Tadahiko Murata, "Balance Between Genetic Search and Local Search in Memetic Algorithms for Multiobjective Permutation Flowshop Scheduling", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 2, pp. 204–223, April 2003 (**JOUR INT**).

195. Peter A.N. Bosman and Dirk Thierens, "The Balance Between Proximity and Diversity in Multiobjective Evolutionary Algorithms", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 2, pp. 174–188, April 2003 (**JOUR INT**).

196. Xiaohui Hu, Russell C. Eberhart and Yuhui Shi, "Particle Swarm with Extended Memory for Multiobjective Optimization", in *2003 IEEE Swarm*

Intelligence Symposium Proceedings, IEEE Service Center, pp. 193–197, Indianapolis, Indiana, USA, April 2003 (**CONG INT**).

197. Gina M.B. Oliveira, Oscar K.N. Asakura and Pedro P.B. Oliveira, "Dynamic Behaviour Forecast as a Driving Force in the Coevolution of One-Dimensional Cellular Automata", in *VII Brazilian Symposium on Neural Networks (SBRN'02)*, pp. 98–103, IEEE Computer Society, Pernambuco, Brazil, November 2002 (**CONG INT**).
198. M.A. Abido, "A novel multiobjective evolutionary algorithm or encironmental/economic power dispatch", *Electric Power Systems Research*, Vol. 65, No. 1, pp. 71–81, April 2003 (**JOUR INT**).
199. K.C. Tan, E.F. Khor, T.H. Lee and R. Sathikannan, "An evolutionary algorithm with advanced goal and priority specification for multi-objective optimization", *Journal of Artificial Intelligence Research*, Vol. 18, pp. 183–215, 2003 (**JOUR INT**).
200. Mo Jamshidi, Leandro dos Santos Coelho, Renato A. Krohling and Peter J. Fleming, *Robust Control Systems with Genetic Algorithms*, CRC Press, página 160, ISBN 0-8493-1251-5, 2003, (**LIB ING**).
201. H.A. Abbass and R. Sarker, "The Pareto Differential Evolution Approach, *International Journal on Artificial Intelligence Tools*, Vol. 11, No. 4, pp. 531–552, 2002 (**JOUR INT**).
202. Vincent T'kindt and Jean-Charles Billaut, *Multicriteria Scheduling. Theory, Models and Algorithms*, Springer, Berlín, 2002, página 89, ISBN 3-540-43617-0 (**LIB ING**).
203. David Montana, Jose Herrero, Gordon Vidaver and Garrett Bidwell, "A Multiagent Society for Military Transportation Scheduling", *Journal of Scheduling*, Vol. 3, No. 4, pp. 225–246, 2000 (**JOUR INT**).
204. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A Novel Approach to Design Space Exploration of Parameterized SOCs", in *IFIP International Conference on Very Large Scale Integration, The Global System on Chip Design & CAD Conference, 11th Edition*, pp. 449–454, Montpellier, France, December 2001 (**CONG INT**).
205. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "An Evolutionary Approach for Pareto-optimal Configurations in SOC Platform", in Michel Robert, Bruno Rouzeyre, Christian Piguet and Marie-Lise Flottes (editors), *SOC Design Methodologies*, pp. 157–168, Kluwer Academic Publishers, ISBN 1-4020-7148-5, 2002 (**CAP LIB**).
206. E.K. Burke and J.D. Landa Silva, "Improving the Performance of Trajectory-Based Multiobjective Optimisers by Using Relaxed Dominance", in *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution And Learning* (SEAL'2002), Singapore, pp. 203–207, 2002 (**CONG INT**).
207. J.A. Vasconcelos, R.L.S. Adriano, D.A.G. Vieira, G.F.D. Souza and H.S. Azevedo, "NSGA with Elitism Applied to Solve Multiobjective Optimization Problems", *Journal of Microwaves and Optoelectronics*, Vol. 2, No. 6, pp. 59–69, December 2002, ISSN 1516-7399 (**JOUR INT**).

208. A. Herreros, E. Baeyens and J.R. Peran, "MRCD: A Genetic Algorithm for Multiobjective Robust Control Design", *Engineering Applications of Artificial Intelligence*, Vol. 15, Nos. 3–4, pp. 285–301, June-August 2002 (**JOUR INT**).

209. P.A.N. Bosman and D. Thierens, "Multi-objective optimization with diversity preserving mixture-based iterated density estimation evolutionary algorithms", *International Journal of Approximate Reasoning*, Vol. 31, No. 3, pp. 259–289, November 2002 (**JOUR INT**).

210. B.J. Reynolds and S. Azarm, "A multi-objective heuristic-based hybrid genetic algorithm", *Mechanics of Structures and Machines*, Vol. 30, No. 4, pp. 463–491, 2002 (**JOUR INT**).

211. Eduardo Fernández and Jorge Navarro, "A Genetic Search for Exploiting a Fuzzy Preference Model of Portfolio Problems with Public Projects", *Annals of Operations Research*, Vol. 117, Nos. 1–4, pp. 191–213, November 2002 (**JOUR INT**).

212. P.J. Fleming and R.C. Purshouse, "Evolutionary algorithms in control systems engineering: a survey", *Control Engineering Practice*, Vol. 10, No. 11, pp. 1223–1241, November 2002 (**JOUR INT**).

213. M.A. Abido, "A Niched Pareto Genetic Algorithm for Multiobjective Environmental/Economic Dispatch", *International Journal of Electrical Power & Energy Systems*, Vol. 25, No. 2, pp. 97–105, February 2003 (**JOUR INT**).

214. Maurizio Palesi and Tony Givargis, "Multi-Objective Design Space Exploration Using Genetic Algorithms", en *Tenth International Workshop on Hardware/Software Codesign* (CODES'2002), pp. 67–72, ACM Press, Estes Park, Colorado, May 2002 (**CONG INT**).

215. Tony Wong, Pascal Côté and Paul Gely, "Final Exam Timetabling: A Practical Approach", *Proceedings of the 2002 IEEE Canadian Conference on Electrical & Computer Engineering*, pp. 726–731, Vol. 2, IEEE, Winnipeg, Canadá, Mayo 12-15, 2002 (**CONG INT**).

216. V.S. Summanwar, V.K. Jayaraman, B.D. Kulkarni, H.S. Kusumakar, K. Gupta, and J. Rajesh, "Solution of constrained optimization problems by multi-objective genetic algorithm", *Computers and Chemical Engineering*, Vol. 26, No. 10, pp. 1481–1492, October 15, 2002 (**JOUR INT**).

217. A. Herreros, E. Baeyens and J.R. Peran, "Design of PID-type controllers using multiobjective genetic algorithms", *ISA Transactions*, Vol. 41, No. 4, pp. 457–472, October 2002 (**JOUR INT**).

218. Enrique Alba and Marco Tomassini, "Parallelism and Evolutionary Algorithms", *IEEE Transactions on Evolutionary Computation*, Vol. 6, No. 5, pp. 443–462, October 2002 (**JOUR INT**).

219. Ricardo P. Beausoleil, "Multiple Criteria Scatter Search", en Jorge Pinho de Sousa (editor), *Proceedings of the 4th Metaheuristics International Conference (MIC 2001)*, Program Operational Ciencia, Tecnologia, Inovaçao do

Quadro Comunitário de Apoio III de Fundaçao para a Ciencia e Tecnologia, pp. 539–543, Porto, Portugal, July 2001 (**CONG INT**).

220. Tomonari Furukawa, Shinobu Yoshimura and Hiroshi Kawai, "Human-like Optimization—A Novel Technique for Computational Design", in H.A. Mang, F.G. Rammerstorfer and J. Eberhardsteiner (eds), *Proceedings of the Fifth World Congress on Computational Mechanics (WCCM V)*, Vienna University of Technology, Vienna, Austria, July 2002 (**CONG INT**).
221. R. Filomeno Coelho, Ph. Bouillard and H. Bersini, "PAMUC: A new method to handle with constraints and multiobjectivity in evolutionary algorithms",in *International Union of Theoretical and Applied Mechanics Symposium on Evolutionary Methods in Mechanics*, pp. 21–22, Cracow, Polonia, Septiembre de 2002 (**CONG INT**).
222. Jin Wu, "Quality Assisted Multiobjective and Multidisciplinary Genetic Algorithms", PhD Thesis, Department of Mechanical Engineering, University of Maryland at College Park, College Park, Maryland, EUA, 2001 (**TES DOC**).
223. K.J. Shaw, A.L. Nortcliffe, M. Thompson, J. Love and P.J. Fleming, "Interactive Batch Process Schedule Optimization and Decision-Making using Multiobjective Genetic Algorithms", in *IEEE International Conference on Systems, Man, and Cybernetics*, Vol. 6, pp. 486–491, 1999 (**CONG INT**).
224. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A Framework for Design Space Exploration of Parameterized VLSI Systems", *Proceedings of the 15th International Conference on VLSI Design*, IEEE, pp. 245–250, 2002 (**CONG INT**).
225. M.A. Abido, "A new multiobjective evolutionary algorithm for environmental/economic power dispatch", *Power Engineering Society Summer Meeting*, Vol. 2, pp. 1263–1268, IEEE, 2001 (**CONG INT**).
226. A. Kurpati, S. Azarm and J. Wu, "Constraint handling improvements for multiobjective genetic algorithms", *Structural and Multidisciplinary Optimization*, Vol. 23, No. 3, pp. 204–213, April 2002 (**JOUR INT**).
227. Gregor Papa & Jurij Šilc, "Automatic large-scale integrated circuit synthesis using allocation-based scheduling algorithm", *Microprocessors and Microsystems*, Vol. 26, No. 3, pp. 139–147, 2002 (**JOUR INT**).
228. Patrick Michael Reed, "Striking the Balance: Long-Term Groundwater Monitoring Design for Multiple Conflicting Objectives", PhD Thesis, Graduate School at the University of Illinois at Urbana-Champaign, Urbana, Illinois, 2002 (**TES DOC**).
229. Pasanth B. Nair and Andrew J. Keane, "A Coevolutionary Architecture for Distributed Optimization of Complex Coupled Systems", *AIAA Journal*, Vol. 40, No. 7, pp. 1434–1443, July 2002 (**JOUR INT**).
230. Tomonari Furukawa and Gamini Dissanayake, "Parameter Identification of Autonomous Vehicles using Multi-Objective Optimisation", *Engineering Optimization*, Vol. 34, No. 4, pp. 369–395, 2002 (**JOUR INT**).

231. Gregor Papa & Jurij Šilc, "Chip Design Based on Genetic Approach", *Journal of Electrical Engineering*, Vol. 53, No. 3–4, pp. 76–80, 2002, ISSN 1335–3632 (**JOUR INT**).

232. Marco Farina, "Cost-effective Evolutionary Strategies for Pareto Optimal Front Approximation in Multiobjective Shape Design Optimization of Electromagnetic Devices", PhD Thesis, Department of Electrical Engineering, University of Pavia, Italy, 2001 (**TES DOC**).

233. Eduardo Fernández González y Juan Carlos Leyva López, "Un Método para Resolver Problemas de Decisión a Partir de Una Modelación Flexible de Preferencias Basada en Lógica Borrosa", *Computación y Sistemas*, Vol. 5, No. 4, pp. 277–287, Abril–Junio 2002 (**JOUR INT**).

234. Carlos C.H. Borges and Helio J.C. Barbosa, "Obtaining a Restricted Pareto Front in Evolutionary Multiobjective Optimization", *Foundations of Computing and Decision Sciences*, Vol. 26, No. 1, pp. 5–21, 2001 (**JOUR INT**).

235. Geoff Leyland, "Multi-Objective Optimisation Applied to Industrial Energy Problems", PhD Thesis, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, May 2002 (**TES DOC**).

236. Dan Costelloe, Peter Mooney and Adam Winstanley, "Multi-Objective Optimisation on Transportation Networks", *Proceedings of 4th AGILE Conference*, Brno, Czech Republic, April 2001 (**CONG INT**).

237. Zhong-Yao Zhu and Kwong-Sak Leung, "An Enhanced Annealing Genetic Algorithm for Multi-Objective Optimization Problems", in E.Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A.C. Schultz, J. F. Miller, E. Burke, and N. Jonoska (editors) *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002)*, pp. 658–665, Morgan Kaufmann Publishers, San Francisco, California, July 2002 (**CONG INT**).

238. Matthias Ehrgott and Xavier Gandibleux, "Multiobjective Combinatorial Optimization—Theory, Methodology, and Applications", in Matthias Ehrgott and Xavier Gandibleux (editors), *Multiple Criteria Optimization: State of the Art Annotated Bibliographic Surveys*, pp. 369–444, Kluwer Academic Publishers, Boston, 2002 (**CAP LIB**).

239. Tatsuya Okabe, Yaochu Jin and Bernhard Sendhoff. "On the Dynamics of Evolutionary Multi-Objective Optimization", in E.Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A.C. Schultz, J. F. Miller, E. Burke, and N. Jonoska (editors) *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002)*, pp. 247–255, Morgan Kaufmann Publishers, San Francisco, California, July 2002 (**CONG INT**).

240. Meta Suntornsaratoon, Charles Newton & Edward Lewis, "A Verification of Weight Coefficients in the Objective Function for Efficiency Optimisation of Dynamic Systems using DEA", *The 10th Australasian Conference on Information Systems*, pp. 907–918, New Zealand, 1999 (**CONG INT**).

241. Mikkel T. Jensen, "Robust and Flexible Scheduling with Evolutionary Computation", PhD Thesis, Department of Computer Science, University of Aarhus, Denmark, October 2001 (**TES DOC**).

242. M.S. Levin, "Towards combinatorial analysis, adaptation, and planning of human-computer systems", *Applied Intelligence*, Vol. 16, No. 3, pp. 235–247, May-June 2002 (**JOUR INT**).

243. K.C. Tan, T.H. Lee and E.F. Khor, "Evolutionary Algorithms for Multi-Objective Optimization: Performance Assessments and Comparisons", *Artificial Intelligence Review*, Vol. 17, No. 4, pp. 253–290, June 2002 (**JOUR INT**).

244. Erich Germán Grüttner Díaz, "Determinación de Recorridos Óptimos de Líneas de Transporte Público Utilizando Algoritmos Genéticos", Tesis de Licenciatura, Facultad de Ingeniería, Departamento de Ingeniería Informática y Ciencias de la Computación, Universidad de Concepción, Chile, abril de 2002 (**TES LIC**).

245. Xiaohui Hu and Russell Eberhart, "Multiobjective Optimization Using Dynamic Neighborhood Particle Swarm Optimization", *Congress on Evolutionary Computation (CEC'2002)*, Volume 2, pp. 1677–1681, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

246. Nateri K. Madavan, "Multiobjective Optimization Using a Pareto Differential Evolution Approach", *Congress on Evolutionary Computation (CEC'2002)*, Volume 2, pp. 1145–1150, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

247. Kiam Heong Ang, Gregory Chong and Yun Li, "Preliminary Statement on the Current Progress of Multi-Objective Evolutionary Algorithm Performance Measurement", *Congress on Evolutionary Computation (CEC'2002)*, Volume 2, pp. 1139–1144, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

248. Zhong-Yao Zhu and Kwong-Sak Leung, "Asynchronous Self-Adjustable Island Genetic Algorithm for Multi-Objective Optimization Problems", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 837–842, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

249. Hussein A. Abbass, "The Self-Adaptive Pareto Differential Evolution Algorithm", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 831–836, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

250. Tadahiko Murata, Hiroyuki Nozawa, Yasuhiro Tsujimura, Mitsuo Gen and Hisao Ishibuchi, "Effect of Local Search on the Performance of Cellular Multi-Objective Genetic Algorithms for Designing Fuzzy Rule-based Classification Systems", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 663–668, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

251. Vic Ciesielski and Dylan Mawhinney, "Prevention of Early Convergence in Genetic Programming by Replacement of Similar Programs", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 67–72, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

252. Andrew Tuson & David E. Clark, "New Techniques and Future Directions", en David E. Clark (editor), *Evolutionary Algorithms in Molecular Design*, Capítulo 12, pp. 241–264, Wiley, 2000. p. 248 (**CAP LIB**).

253. Ruhul Sarker, Hussein A. Abbass and Samin Karim, "An Evolutionary Algorithm for Constrained Multiobjective Optimization Problems", in Peter Whigham, Mitsuo Gen, Kirsty Richards, Yasuhiro Tujimura, Bob McKay, and Akira Namatame (editors), *The 5th Australasia-Japan Joint Workshop on Intelligent and Evolutionary Systems (AJWIS2001)*, pp. 113–122, Dunedin, New Zealand, November 2001 (**CONG INT**).

254. Ruhul Sarker, Hussein A. Abbass and Charles Newton, "Solving Multiobjective Optimization Problems Using Evolutionary Algorithm", *The International Conference on Computational Intelligence for Modelling, Control and Automation CIMCA'2001*, pp. 149–160, Las Vegas, USA, July 2001 (**CONG INT**).

255. Ruhul Sarker, Charles Newton, & Ko-Hsin Liang, "A Multiobjective Evolutionary Algorithm", *International ICSC (International Computer Science Convention) Congress on Intelligent Systems and Applications (ISA'2000)*, pp. 125–131, Wollongong, Australia, vol. 2, December 2000 (**CONG INT**).

256. Ruhul Sarker, Ko-Hsin Liang & Charles Newton, "A new multiobjective evolutionary algorithm", *European Journal of Operational Research*, Vol. 140, pp. 12–23, 2002 (**JOUR INT**).

257. Tomonari Furukawa, "Parameter Identification with Weightless Regularization", *International Journal for Numerical Methods in Engineering*, Vol. 52, No. 3, pp. 219–238, September 2001 (**JOUR INT**).

258. R. Sarker and C. Newton, "Solving a Multiple Objective Linear Program using Simulated Annealing", *Asia-Pacific Journal of Operational Research*, Vol. 18, No. 1, pp. 109–120, May 2001 (**JOUR INT**).

259. Shi Lei and Yao Pingjing, "Multi-objective Evolutionary Algorithms for MILP and MINLP in Process Synthesis", *Chinese Journal of Chemical Engineering*, Vol. 9, No. 2, pp. 173–178, May 2001 (**JOUR INT**).

260. H. Aguirre, K. Tanaka, T. Sugimura, and S. Oshita, "Simultaneous halftone image generation with improved multiobjective algorithm", *IEICE Transactions on Fundamentals of Electronics Communications and Computer Sciences*, Vol. E84A, No. 8, pp. 1869–1882, August 2001 (**JOUR INT**).

261. B. Fazlollahi and R. Vahidov, "A method for generation of alternatives by decision support systems", *Journal of Management Information Systems*, Vol. 18, No. 2, pp. 229–250, Fall 2001 (**JOUR INT**).

262. Brahim Rekiek, Pierre De Lit, Fabrice Pellichero, Thomas L'Englise, Patrick Fouda, Emanuel Falkenauer and Alain Delchambre, "A Multiple Objective Grouping Genetic Algorithm for Assembly Line Design", *Journal of Intelligent Manufacturing*, Vol. 12, Nos. 5–6, pp. 467–485, 2001 (**JOUR INT**).

263. Pierre De Lit, Patrice Latinne, Brahim Rekiek and Alain Delchambre, "Assembly Planning with an Ordering Genetic Algorithm", *International Journal of Production Research*, Vol. 39, No. 16, pp. 3623–3640, November 2001 (**JOUR INT**).

264. G. Papa and J. Silc, "Automatic Large-Scale Integrated Circuit Synthesis using Allocation-Based Scheduling Algorithm, *Microprocessors and Microsystems*, Vol. 26, No. 3, pp. 139–147, April 2002 (**JOUR INT**).

265. A.L. Medaglia, S.C. Fang and H.L.W. Nuttle, "Fuzzy Controlled Simulation Optimization", *Fuzzy Sets and Systems*, Vol. 127, No. 1, pp. 65–84, April 2002 (**JOUR INT**).

266. B. Rekiek, P. De Lit and A. Delchambre, "Hybrid Assembly Line Design and User's Preferences", *International Journal of Production Research*, Vol. 40, No. 5, pp. 1095–1111, March 2002 (**JOUR INT**).

267. D. Dumitrescu, Crina Groşan and Mihai Oltean, "A New Evolutionary Approach for Multiobjective Optimization", *Studia Universitatis Babeş–Bolyai, Informatica*, Volume XLV, No. 1, pp. 51–68, 2000. (**JOUR INT**)

268. D. Dumitrescu, Crina Groşan and Mihai Oltean, "Genetic Chromodynamics for Obtaining Continuous Representation of Pareto Regions", *Studia Universitatis Babeş–Bolyai, Informatica*, Volume XLVI, No. 1, pp. 15–30, 2001. (**JOUR INT**)

269. Jonathan E. Fieldsend and Sameer Singh, "Pareto Multi-Objective Non-Linear Regression Modelling to Aid CAPM Analogous Forecasting", *Proceedings of the IEEE/INNS Joint International Conference on Neural Networks* (INCNN'02), World Congress on Computational Intelligence, Vol. 1, pp. 388–393, Honolulu, Hawaii, May 2002. (**CONG INT**)

270. Dan Costelloe, Peter Mooney, and Adam Winstanley, "Multi-Objective Optimisation and Dynamic Routing Algorithms in Transportation Networks", *First International Conference on Geographic Information Science*, Savannah, Georgia, October 2000. (**CONG INT**)

271. Andrew Kusiak, "Evolutionary Computation and Data Mining", *Proceedings of the SPIE Conference on Intelligent Systems and Advanced Manufacturing*, Edited by B. Gopalakrishnan and A. Gunasekaran, SPIE, Vol. 4192, Boston, Massachussets, pp. 1–10, November 2000. (**CONG INT**)

272. Ivo F. Sbalzarini, Sibylle Müller & Petros Koumoutsakos, "Multiobjective Optimization using Evolutionary Algorithms", *Center for Turbulence Research. Proceedings of the 2000 Summer Program*, NASA Ames/Stanford University, pp. 63–74, 2000. (**CONG INT**)

273. Andrzej Osyczka, "Evolutionary Algorithms for Single and Multicriteria Design Optimization", Physica Verlag, Germany, 2002, ISBN 3-7908-1418-0, pag. 94. (**LIB ING**)

274. K.C. Tan, T.H. Lee & E. F. Khor, "Evolutionary Algorithms with Dynamic Population Size and Local Exploration for Multiobjective Optimization, *IEEE Transactions on Evolutionary Computation*, Vol. 5, No. 6, pp. 565-588, December 2001. (**JOUR INT**)

275. K.C. Tan, Tong H. Lee, D. Khoo & E.F. Khor, "A Multiobjective Evolutionary Algorithm Toolbox for Computer-Aided Multiobjective Optimization", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 31, No. 4, pp. 537–556, August 2001. (**JOUR INT**)

276. Kalyanmoy Deb, "Multi-Objective Optimization using Evolutionary Algorithms", John Wiley & Sons, Chichester, UK, 2001, pag. 166. (**LIB ING**)

277. E.K. Burke, P. Cowling, J.D. Landa Silva and S. Petrovic, "Combining Hybrid Metaheuristics and Populations for the Multiobjective Optimisation of Space Allocation Problems", in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 1252–1259, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

278. Helio J.C. Barbosa & André M.S. Barreto, "An interactive genetic algorithm with co-evolution of weights for multiobjective problems", in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 203–210, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

279. Kiam Heong Ang and Yun Li, "Multi-Objective Benchmark Studies for Evolutionary Computation", *2001 Genetic and Evolutionary Computation Conference. Workshop Program*, San Francisco, California, pp. 393–396, July 2001. (**CONG INT**)

280. Jin Wu and Shapour Azarm, "On a New Constraint Handling Technique for Multi-Objective Genetic Algorithms, in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 741–748, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

281. Yaochu Jin, Tatsuya Okabe, and Bernhard Sendhoff, "Dynamic Weighted Aggregation for Evolutionary Multi-Objective Optimization: Why Does It Work and How?, in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo,

Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 1042–1049, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

282. Patrick M. Reed, Barbara S. Minsker and David E. Goldberg."The Practitioner's Role in Competent Search and Optimization Using Genetic Algorithms", in Don Phelps and Gerald Sehlke (editors), *Bridging the Gap: Meeting the World's Water and Environmental Resources Challenges. Proceedings of the World Water and Environmental Resources Congress*, American Society of Civil Engineers. ISBN 0-7844-0569-7, Washington, DC, 2001. (**CONG INT**)

283. Dirk Thierens and Peter A.N. Bosman, "Multi-Objective Mixture-based Iterated Density Estimation Evolutionary Algorithms , in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 663–670, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

284. Patrick M. Reed, Barbara S. Minsker and David E. Goldberg, "Designing a New Elitist Nondominated Sorted Genetic Algorithm for a Multiobjective Long Term Groundwater Monitoring Application", *Proceedings of the 2001 Genetic and Evolutionary Computation Conference. Late-Breaking Papers*, pp. 352–358, San Francisco, California, July 2001. (**CONG INT**)

285. Patrick Reed, Barbara S. Minsker & David E. Goldberg, "A multiobjective approach to cost effective long-term groundwater monitoring using an elitist nondominated sorted genetic algorithm with historical data", *Journal of Hydroinformatics*, Volume 3, Number 2, pp. 71–89, April 2001. (**JOUR INT**)

286. Tapabrata Ray, Tai Kang and Seow Kian Chye, "Multiobjective Design Optimization by an Evolutionary Algorithm", *Engineering Optimization*, Vol. 33, No. 3, pp. 399–424, 2001. (**JOUR INT**)

287. Reginald L. Walker, "Parallel Clustering System Using the Methodologies of Evolutionary Computations, *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 831–838, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

288. Hussein A. Abbass, Ruhul Sarker and Charles Newton, "PDE: A Pareto-frontier Differential Evolution Approach for Multi-objective Optimization Problems", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 971–978, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

289. YongSeog Kim, W. Nick Street, and Filippo Menczer, "Evolutionary Multi-Objective Local Selection Algorithm for Customer Targeting", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea,

Vol. 2, pp. 759–766, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

290. Sibylle D. Müller, Ivo F. Sbalzarini, Jens H. Walther, and Petros D. Koumoutsakos, "Evolution Strategies for the Optimization of Microdevices", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 1, pp. 302–309, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)
291. Kishan Chetan Srigiriraju, "Noninferior Surface Tracing Evolutionary Algorithm (NSTEA) for Multi Objective Optimization", MS Thesis, North Carolina State University, Raleigh, North Carolina, August 2000. (**TES MAE**)
292. Andrzej Jaszkiewicz, "Multiple objective metaheuristic algorithms for combinatorial optimization", Habilitation thesis, 360, Poznan University of Technology, Poznan, Polony, ISBN 83-7143-498-7, 2001, pag. 15. (**LIB ING**)
293. Dirk Thierens & Peter Bosman, "Multi-Objective Optimization with Iterated Density Estimation Evolutionary Algorithms using Mixture Models", *Proceedings of the Third International Symposium on Adaptive Systems. Evolutionary Computation & Probabilistic Graphics Models*, Institute of Cybernetics, Mathematics and Physics, pp. 129–136, Havana, Cuba, March 19–23, 2001 (**CONG INT**).
294. Katya Rodríguez Vázquez & Peter J. Fleming, "Functionality and Optimality in Circuit Design: A Genetic Programming Approach", *Proceedings of the Third International Symposium on Adaptive Systems. Evolutionary Computation & Probabilistic Graphics Models*, Institute of Cybernetics, Mathematics and Physics, pp. 23–28, Havana, Cuba, March 19–23, 2001 (**CONG INT**).
295. Kiam Heong Ang, Yun Li & Kay Chen Tan, "Multi-Objective Benchmark Functions and Benchmark Studies for Evolutionary Computation", *Proceedings of the International Conference on Computational Intelligence for Modelling Control and Automation (CIMCA'2001)*, pp. 132–139, Las Vegas, Nevada, Julio 2001 (**CONG INT**).
296. Brahim Rekiek, *Assembly Line Design (multiple objective grouping genetic algorithm and the balancing of mixed-model hybrid assembly line)*, PhD Thesis, Free University of Brussels, CAD/CAM Department, Brussels, Belgium, December 2000 (**TES DOC**).
297. Ester Bernadó i Mansilla and Josep M. Garrell i Guiu, "MOLeCS: Using Multiobjective Evolutionary Algorithms for Learning", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 696–710, Marzo de 2001. (**CONG INT**)

298. Ivo F. Sbalzarini, Sibylle Müller & Petros Koumoutsakos, "Microchannel Optimization Using Multiobjective Evolution Strategies", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 516–530, Marzo de 2001. (**CONG INT**)

299. Hernán E. Aguirre, Kiyoshi Tanaka, Tatsuo Sugimura & Shinjiro Oshita, "Halftone Image Generation with Improved Multiobjective Genetic Algorithm", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 501–515, Marzo de 2001. (**CONG INT**)

300. W. Matthew Carlyle, Bosun Kim, John W. Fowler & Esma S. Gel, "Comparison of Multiple Objective Genetic Algorithms for Parallel Machine Scheduling Problems", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Lecture Notes in Computer Science Vol. 1993, Zurich, Suiza, pp. 472–485, Marzo de 2001. (**CONG INT**)

301. C. Brizuela, N. Sannomiya & Y. Zhao, "Multi-objective Flow-Shop: Preliminary Results", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Lecture Notes in Computer Science Vol. 1993, Zurich, Suiza, pp. 443–457, Marzo de 2001. (**CONG INT**)

302. Jerzy Balicki and Zygmunt Kitowski, "Multicriteria Evolutionary Algorithm with Tabu Search for Task Assignment", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Lecture Notes in Computer Science Vol. 1993, Zurich, Suiza, pp. 373–384, Marzo de 2001. (**CONG INT**)

303. S. Ranji Ranjithan, S. Kishan Chetan and Harish K. Dakshina, "Constraint Method-Based Evolutionary Algorithm (CMEA) for Multiobjective Optimization", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 299–313, Marzo de 2001. (**CONG INT**)

304. Marco Laumanns, Eckart Zitzler and Lothar Thiele, "On the Effects of Archiving, Elitism, and Density Based Selection in Evolutionary Multiobjective Optimization", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 181–196, Marzo de 2001. (**CONG INT**)

305. Andrzej Osyczka & Stanislaw Krenich, "Evolutionary Algorithms for Multicriteria Optimization with Selecting a Representative Subset of Pareto Optimal Solutions, en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 141–153, Marzo de 2001. (**CONG INT**)

306. Yaochu Jin, Tatsuya Okabe & Bernhard Sendhoff, "Adapting Weighted Aggregation for Multiobjective Evolution Strategies", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 96–110, Marzo de 2001. (**CONG INT**)

307. Carlos Eduardo Mariano Romero, *Aprendizaje por Refuerzo en Optimización Multiobjetivo*, Tesis Doctoral en Ciencias Computacionales, ITESM Campus Cuernavaca, Cuernavaca, Morelos, México, Marzo de 2001. (**TES DOC**)

308. Dragan Cvetković, *Evolutionary Multi-Objective Decision Support Systems for Conceptual Design*, Plymouth Engineering Design Centre, School of Computing, Faculty of Technology, University of Plymouth, England, July 2000. (**TES DOC**)

309. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)

310. Eckart Zitzler, Kalyanmoy Deb & Lothar Thiele, "Comparison of Multiobjective Evolutionary Algorithms: Empirical Results", *Evolutionary Computation*, Vol. 8, No. 2, pp. 173–195, Summer 2000. (**JOUR INT**)

311. K. J. Shaw, A. L. Nortcliffe, M. Thompson, J. Love, P. J. Fleming and C. M. Fonseca. "Assessing the Performance of Multiobjective Genetic Algorithms for Optimization of a Batch Process Scheduling Problem ", *Proceedings of the 1999 Congress on Evolutionary Computation, (CEC'99)*, IEEE Service Center, pp. 37–45, Volume 1, July 6-9, Washington, D.C., 1999. (**CONG INT**)

312. David A. Van Veldhuizen and Gary B. Lamont. "Multiobjective Evolutionary Algorithms: Analyzing the State-of-the-Art", *Evolutionary Computation*, Vol. 8, No. 2, pp. 125–147, Summer 2000. (**JOUR INT**)

313. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

314. Eckart Zitzler. *Evolutionary Algorithms for Multiobjective Optimization: Methods and Applications*, PhD Thesis, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, November 1999. (**TES DOC**)

315. David A. Van Veldhuizen and Gary B. Lamont. "Genetic Algorithms, Building Blocks, and Multiobjective Optimization", In Annie S. Wu, editor, *Proceedings of the 1999 Genetic and Evolutionary Computation Conference*. Workshop Program, pages 125–126, Orlando, Florida, July 1999. (**CONG INT**)

316. David A. Van Veldhuizen and Gary B. Lamont. "Multiobjective Optimization with Messy Genetic Algorithm". *In Proceedings of the 2000 ACM Symposium on Applied Computing*, pp. 470–476, Villa Olmo, Como, Italy, 2000. (**CONG INT**)

317. Carlos Mariano and Eduardo Morales, "A New Distributed Reinforcement Learning Algorithm for Multiple Objective Optimization Problems", in Maria Carolina Monard and Jaime Simão Sichman (Eds), *Advances in Artificial Intelligence. IBERAMIA-SBIA 2000*, pp. 290–299, Springer, Lecture Notes in Artificial Intelligence Vol. 1952, Atibaia, SP, Brazil, November 2000 (**CONG INT**).

318. Kalyanmoy Deb. "Evolutionary Algorithms for Multi-Criterion Optimization in Engineering Design", *Evolutionary Algorithms in Engineering and Computer Science*, Chapter 8, pp. 135–161, Kaisa Miettinen and Marko M. Mäkelä and Pekka Neittaanmäki and Jacques Periaux (editors), John Wiley & Sons, Ltd, Chichester, UK, 1999, página 141. (**CAP LIB**)

319. K. J. Shaw, C. M. Fonseca and P. J. Fleming. "A Simple Demonstration of a Quantitative Technique for Comparing Multiobjective Genetic Algorithm Performance", *Proceedings of the 1999 Genetic and Evolutionary Computation Conference. Workshop Program*, Annie S. Wu (editor), Orlando, Florida, pp. 119–120, July 1999. (**CONG INT**)

320. Joshua D. Knowles & David Corne. "Local Search, Multiobjective Optimization and the Pareto Archived Evolution Strategy", In *Proceedings of the Third Australia-Japan Joint Workshop on Intelligent and Evolutionary Systems*, pp. 209–216, Canberra, Australia, 1999. (**CONG INT**)

321. Joshua D. Knowles & David Corne. "M-PAES: A Memetic Algorithm for Multiobjective Optimization", In *2000 Congress on Evolutionary Computation*, pp. 325–332, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

322. David A. Van Veldhuizen & Gary B. Lamont. "On Measuring Multiobjective Evolutionary Algorithm Performance", In *2000 Congress on Evolutionary Computation*, pp. 204–211, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

323. Marco Laumanns, Eckart Zitzler and Lothar Thiele. "A Unified Model for Multi-Objective Evolutionary Algorithms with Elitism", In *2000 Congress on Evolutionary Computation*, pp. 46–53, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

324. Andrzej Osyczka and Stanislaw Krenich. "A New Constraint Tournament Selection Method for Multicriteria Optimization using Genetic Algorithm",

In *2000 Congress on Evolutionary Computation*, pp. 501–507, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

325. Carlos C. H. Borges & Helio J. C. Barbosa. "A Non-generational Genetic Algorithm for Multiobjective Optimization", In *2000 Congress on Evolutionary Computation*, pp. 172–179, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)
326. Joshua D. Knowles & David Corne. "A Comparison of Diverse Approaches to Memetic Multiobjective Combinatorial Optimization", *Proceedings of the 2000 Genetic and Evolutionary Computation Conference Workshop Program*, pp. 103–108, Las Vegas, Nevada, Julio 2000. (**CONG INT**)
327. Richard J. Balling, John T. Taber, Kirsten Day & Scott Wilson, "City Planning with a Multiobjective Genetic Algorithm and a Pareto Set Scanner", in I.C. Parmee (editor), *Evolutionary Design and Manufacture. Selected Papers from ACDM'00*, pp. 237–247, Springer, London, 2000. (**CONG INT**)
328. Alberto Herreros López, "Diseño de Controladores Robustos Multiobjetivo por Medio de Algoritmos Genéticos", Tesis Doctoral, Departamento de Ingeniería de Sistemas y Automática, Universidad de Valladolid, Septiembre del 2000. (**TES DOC**)
329. Herve Meunier; El-Ghazali Talbi and Philippe Reininger. "A multiobjective genetic algorithm fo radio network optimization", In *2000 Congress on Evolutionary Computation*, pp. 317–324, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

- Carlos A. Coello Coello and Nareli Cruz Cortés, "Solving Multiobjective Optimization Problems using an Artificial Immune System", *Genetic Programming and Evolvable Machines*, Vol. 6, No. 2, pp. 163–190, June 2005.

    1. Jongsoo Lee and Hyuk Park, "Constrained minimization utilizing GA based pattern recognition of immune system", *Journal of Mechanical Science and Technology*, Vol. 21, No. 5, pp. 779–788, May 2007.
    2. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
    3. Xiaoning Shen and Weili Hu, "MONEP: A multi-objective non-uniform evolutionary programming algorithm", *Dynamics of Continuous Discrete and Impulsive Systems–Series B–Applications & Algorithms*, Vol. 13, pp. 888–892, Part 2, December 2006.
    4. A. Akdagli, K. Guney and B. Babayigit, "Clonal selection algorithm for design of reconfigurable antenna array with discrete phase shifters", *Journal of Electromagnetic Waves and Applications*, Vol. 21, No. 2, pp. 215–227, 2007.

5. A.R. Yildiz and F. Ozturk, "Hybrid enhanced genetic algorithm to select optimal machining parameters in turning operation", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 12, pp. 2041–2053, December 2006.
6. Kerim Guney, Ali Akdagli and Bilal Babayigit, "Shaped-beam pattern synthesis of linear antenna arrays with the use of a clonal selection algorithm", *Neural Network World*, Vol. 16, No. 6, pp. 489–501, 2006.
7. Shin Ando and Einoshin Suzuki, "Distributed Multi-objective GA for Generating Comprehensive Pareto Front in Deceptive Optimization Problems", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 5718–5725, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
8. Jun Chen and Mahdi Mahfouf, "A population adaptive based immune algorithm for solving multi-objective optimization problems", in Hughes Bersini and Jorge Carneiro (editors), *Artificial Immune Systems, 5th International Conference, ICARIS 2006, Proceedings*, pp. 280–293, Springer-Verlag, Lecture Notes in Computer Science Vol. 4163, Oeiras, Portugal, September 2006.
9. Guilherme P. Coelho and Fernando Von Zuben, "Omni-aiNet: An immune-inspired approach for omni optimization", in Hughes Bersini and Jorge Carneiro (editors), *Artificial Immune Systems, 5th International Conference, ICARIS 2006, Proceedings*, pp. 294–308, Springer-Verlag, Lecture Notes in Computer Science Vol. 4163, Oeiras, Portugal, September 2006.
10. P.A. Castillo, M.G. Arenas, J.J. Merelo, V.M. Rivas and G. Romero, "Multiobjective Optimization of Ensembles of Multilayer Perceptrons for Pattern Classification", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 453–462, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
11. Mark P. Kleeman and Gary B. Lamont, "The Multi-Objective Constrained Assignment Problem", in Maarten Keijzer et al. (editors), *2006 Genetic and Evolutionary Computation Conference (GECCO'2006)*, pp. 743–744, Vol. 1, ACM Press, Seattle, Washington, USA, July 2006, ISBN 1-59593-186-4.
12. Fabio Freschi and Maurizio Repetto, "VIS: an artificial immune network for multi-objective optimization", *Engineering Optimization*, Vol. 38, No. 8, pp. 975–996, December 2006.
13. H.W. Dai, Z. Tang, Y. Yang and H. Tamura, "Affinity based lateral interaction artificial immune system", *IEICE Transactions on Information and Systems*, Vol. E89D, No. 4, pp. 1515–1524, April 2006.
14. S. Meshoul, K. Mahdi and M. Batouche, "A quantum inspired evolutionary framework for multi-objective optimization", in *Progress in Artificial Intelligence, Proceedings*, pp. 190–201, Springer, Lecture Notes in Artificial Intelligence, Vol. 3808, 2005.

15. Deepti Chafekar, Liang Shi, Khaled Rasheed and Jiang Xuan, "Multiobjective GA Optimization Using Reduced Models", *IEEE Transactions on Systems, Man, and Cybernetics—Part C: Applications and Reviews*, Vol. 35, No. 2, pp. 261–265, May 2005 (**JOUR INT**).
16. Adnan Acan, "Clonal Selection Algorithm with Operator Multiplicity", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1909–1915, Portland, Oregon, USA, June 2004 (**CONG INT**).

- Luis Vicente Santana-Quintero and Carlos A. Coello Coello, "An Algorithm Based on Differential Evolution for Multi-Objective Problems", *International Journal of Computational Intelligence Research*, Vol. 1, No. 2, pp. 151–169, 2005, ISSN 0973-1873.

    1. Israel Vite-Silva, Nareli Cruz-Cortés, Gregorio Toscano-Pulido and Luis G. de la Fraga, "Optimal Triangulation in 3D Computer Vision Using a Multi-objective Evolutionary Algorithm", in Mario Giacobini et al. (Editors), *Applications of Evolutionary Computing. EvoWorkshops 2007: EvoCOMNET, EvoFIN, EvoIASP, EvoINTERACTION, EvoMUSART, EvoSTOC and EvoTRANSLOG*, pp. 330–339, Springer. Lecture Notes in Computer Science Vol. 4448, Valencia, Spain, April 2007 (**CONG INT**).

- **Coello Coello, Carlos A. & Mezura Montes, Efrén, "Constraint-Handling in Genetic Algorithms Through the Use of Dominance-based Tournament Selection", *Advanced Engineering Informatics*, Vol. 16, No. 3, pp. 193–203, July 2002.**

    1. M. Mahdavi, M. Fesanghary and E. Damangir, "An improved harmony search algorithm for solving optimization problems", *Applied Mathematics and Computation*, Vol. 188, No. 2, pp. 1567–1579, May 15, 2007.
    2. Samya Elaoud, Jacques Teghem and Bassem Bouaziz, "Genetic algorithms to solve the cover printing problem", *Computers & Operations Research*, Vol. 34, No. 11, pp. 3346–3361, November 2007.
    3. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New constraint-handling method for multi-objective and multi-constraint evolutionary optimization", *Transactions of the Japan Society for Aeronautical and Space Sciences*, Vol. 50, No. 167, pp. 56–62, May 2007.
    4. Nicholas Young, "Coevolution and Encoding of Fuzzy Systems, and Multiobjective Optimisation", PhD thesis, Faculty of Business and Informatics, Central Queensland University, Australia, February 2007 (**TES DOC**).
    5. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, "Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems", *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.

6. Fu-zhuo Huang, Ling Wang and Qie He, "An effective co-evolutionary differential evolution for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 1, pp. 340–356, March 1, 2007.
7. Qie He and Ling Wang, "A hybrid particle swarm optimization with a feasibility-based rule for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 2, pp. 1407–1422, March 15, 2007.
8. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
9. Antonin Ponsich, Catherine Azzaro-Pantel, Serge Domenech and Luc Pibouleau, "Mixed-integer nonlinear programming optimization strategies for batch plant design problems", *Industrial & Engineering Chemistry Research*, Vol. 46, No. 3, pp. 854–863, January 31, 2007.
10. Qie He and Ling Wang, "An effective co-evolutionary particle swarm optimization for constrained engineering design problems", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 1, pp. 89–99, February 2007.
11. Wen-Fung Leong and Gary G. Yen, "Dynamic Population size in PSO-based Multiobjective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6182–6189, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
12. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.
13. I. Karen, A.R. Yildiz, N. Kaya, N. Öztürk and F. Öztürk, "Hybrid approach for genetic algorithm and Taguchi's method based design optimization in the automotive industry", *International Journal of Production Research*, Vol. 44, No. 22, pp. 4897–4914, November 15, 2006.
14. Abdel-Rahman Hedar A. Ahmed, "Studies on Metaheuristics for Continuous Global Optimization Problems", PhD thesis, Kyoto University, Kyoto, Japan, June 2004 (**TES DOC**).
15. A. Konak, D.W. Coit and A.E. Smith, "Multi-objective optimization using genetic algorithms: A tutorial", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 992–1007, September 2006.
16. A.R. Hedar and M. Fukushima, "Derivative-free filter simulated annealing method for constrained continuous global optimization", *Journal of Global Optimization*, Vol. 35, No. 4, pp. 521–549, August 2006.
17. Antonin Ponsich, "Strategies d'Optimisation Mixte en Genie des Procedes. Application a la Conception d'Ateliers Discontinus", PhD thesis, Institut National Polytechnique de Toulouse, Toulouse, Francia, Diciembre 2005 (**TES DOC**).

18. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
19. L.J. Cui and D.C. Sheng, "Genetic algorithms in probabilistic finite element analysis of geotechnical problems", *Computers and Geotechnics*, Vol. 32, No. 8, pp. 555–563, 2005.
20. L. Wang, "A hybrid genetic algorithm-neural network strategy for simulation optimization", *Applied Mathematics and Computation*, Vol. 170, No. 2, pp. 1329–1343, November 15, 2005.
21. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New Constraint-Handling Method for Multi-Objective Multi-Constraint Evolutionary Optimization and Its Application to Space Plane Design", in R. Schilling, W. Haase, J. Periaux, H. Baier and G. Bugeda (editors), *Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2005)*, Munich, Germany, 2005 (*CONG INT*).
22. W.M. Wang, H. Rivard and R. Zmeureanu, "An object-oriented framework for simulation-based green building design optimization with genetic algorithms", *Advanced Engineering Informatics*, Vol. 19, No. 1, pp. 5–23, January 2005.
23. Sebastian Beck, "Ein Konzept zur automatischen Lösung von Entscheidungsproblemen bei Unsicherheit mittels der Theorie der unscharfen Mengen und der Evidenztheorie", PhD thesis, Universität Karlsruhe, Fakultät für Maschinenbau, Alemania, 2004 (**TES DOC**).
24. Ling Wang and Fang Tang, "NN-based GA for engineering optimization", in Fuliang Yin, Jun Wang, Chengan Guo (editors), *Advances in Neural Networks—ISNN 2004: International Symposium on Neural Networks*, Springer, Lecture Notes in Computer Science, Vol. 3173, pp. 448–453, August 2004 (**CONG INT**).
25. A.C.C. Lemonge and H.J.C. Barbosa, "An adaptive penalty scheme for genetic algorithms in structural optimization", *International Journal for Numerical Methods in Engineering*, Vol. 59, No. 5, pp. 703–736, February 7, 2004 (**JOUR INT**).

- **Coello Coello, Carlos A. "Use of a Self-Adaptive Penalty Approach for Engineering Optimization Problems", *Computers in Industry*, Elsevier Science, Vol. 41, No. 2, pp. 113–127, January 2000.**

1. M. Mahdavi, M. Fesanghary and E. Damangir, "An improved harmony search algorithm for solving optimization problems", *Applied Mathematics and Computation*, Vol. 188, No. 2, pp. 1567–1579, May 15, 2007.
2. Gary D. Hart, "A Constraint-Stabilized Time-Stepping Approach for Piecewise Smooth Multibody Dynamics", PhD thesis, Department of Mathematics, University of Pittsburgh, USA, April 2007 (**TES DOC**).

3. Fu-zhuo Huang, Ling Wang and Qie He, "An effective co-evolutionary differential evolution for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 1, pp. 340–356, March 1, 2007.
4. Qie He and Ling Wang, "A hybrid particle swarm optimization with a feasibility-based rule for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 2, pp. 1407–1422, March 15, 2007.
5. Jenn-Long Liu and Jiann-Horng Lin, "Evolutionary computation of unconstrained and constrained problems using a novel momentum-type particle swarm optimization", *Engineering Optimization*, Vol. 39, No. 3, pp. 287–305, April 2007.
6. B. Bochenek and P. Forys, "Structural optimization for post-buckling behavior using particle swarms", *Structural and Multidisciplinary Optimization*, Vol. 32, No. 6, pp. 521–531, December 2006.
7. Qie He and Ling Wang, "An effective co-evolutionary particle swarm optimization for constrained engineering design problems", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 1, pp. 89–99, February 2007.
8. George G. Dimopoulos, "Mixed-variable engineering optimization based on evolutionary and social metaphors", *Computer Methods in Applied Mechanics and Engineering*, Vol. 196, Nos. 4–6, pp. 803–817, 2007.
9. Leandro dos Santos Coelho and Viviana Cocco Mariani, "An Efficient Particle Swarm Optimization Approach Based on Cultural Algorithm Applied to Mechanical Design", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3844–3849, IEEE, Vancouver, BC, Canada, July 2006.
10. Lino António Antunes Fernandes da Costa, "Algoritmos Evolucionários em Optimização Uni e Multi-objectivo", PhD thesis, Universidade do Minho, Portugal, March 2003 (**TES DOC**).
11. Gary G. Yen, "Constraint Handling in Genetic Algorithm for Optimization", in Fei-Yue Wang and Derong Liu (editors), *Advances in Computational Intelligence. Theory and Applications*, pp. 145–170, World Scientific, Singapore, 2006 (**CAP LIB**).
12. Tetsuyuki Takahama, Setsuko Sakai and Noriyuki Iwane, "Constrained optimization by the ϵ constrained hybrid algorithm of particle swarm optimization and genetic algorithm", in S. Zhang and R. Jarvis (editors), *AI 2005: Advances in Artificial Intelligence*, Springer-Verlag, pp. 389–400, Lecture Notes in Artificial Intelligence Vol. 3809, 2005.
13. Antonin Ponsich, "Strategies d'Optimisation Mixte en Genie des Procedes. Application a la Conception d'Ateliers Discontinus", PhD thesis, Institut National Polytechnique de Toulouse, Toulouse, Francia, Diciembre 2005 (**TES DOC**).
14. P. Chootinan and A. Chen, "Constraint handling in genetic algorithms using a gradient-based repair method", *Computers & Operations Research*, Vol. 33, No. 8, pp. 2263–2281, August 2006.

15. L. Zhang, L. Wang and D.Z. Zheng, "An adaptive genetic algorithm with multiple operators for flowshop scheduling", *International Journal of Advanced Manufacturing Technology*, Vol. 27, Nos. 5–6, pp. 580–587, January 2006.
16. L. Wang, "A hybrid genetic algorithm-neural network strategy for simulation optimization", *Applied Mathematics and Computation*, Vol. 170, No. 2, pp. 1329–1343, November 15, 2005.
17. K.E. Parsopoulos and M.N. Vrahatis, "Unified Particle Swarm Optimization for solving constrained engineering optimization problems", *Advances in Natural Computation, Pt. 3, Proceedings*, Springer, pp. 582–591, Lecture Notes in Computer Science Vol. 3612, 2005.
18. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.
19. Sangameswar Venkatraman and Gary G. Yen, "A Generic Framework for Constrained Optimization Using Genetic Algorithms", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 4, August 2005 (**JOUR INT**).
20. Jenn-long Liu, "Novel orthogonal simulated annealing with fractional factorial analysis to solve global optimization problems", *Engineering Optimization*, Volume 37, No. 5, pp. 499–519, July 2005 (**JOUR INT**).
21. K.S. Lee and Z.W. Geem, "A new meta-heuristic algorithm for continuous engineering optimization: harmony search theory and practice", *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 36–38, pp. 3902–3933, 2005 (**JOUR INT**).
22. Marcos Martinez Silvoso, "Otimização da Fase Construtiva de Estruturas de Concreto em Face Dos Efeitos da Hidratação via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Brasil, March 2003 (**TES DOC**).
23. Özgür Yeniay, "Penalty Function Methods for Constrained Optimization with Genetic Algorithms", *Mathematical and Computational Applications*, Vol. 10, No. 1, pp. 45–56, 2005 (**JOUR INT**).
24. R.F. Coelho and P. Bouillard, "A multicriteria evolutionary algorithm for mechanical design optimization with expert rules", *International Journal for Numerical Methods in Engineering*, Vol. 62, No. 4, pp. 516–536, January 28, 2005 (**JOUR INT**).
25. R. Filomeno Coelho, PH. Bouillard and H. Bersini, "PAMUC: A New Method to Handle Constraints and Multiobjectivity in Evolutionary Algorithms", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 91–100, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).
26. S. He, E. Prempain and Q.H. Wu, "An improved particle swarm optimizer for mechanical design optimization problems", *Engineering Optimization*, Vol. 36, No. 5, pp. 585–605, October 2004 (**JOUR INT**).

27. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).
28. J.S. Cui and Z.Q. Sun, "Model-based visual hand posture tracking for guiding a dexterous robotic hand", *Optics Communications*, Vol. 235, Nos. 4–6, pp. 311–318, May 15 2004 (**JOUR INT**).
29. A.C.C. Lemonge and H.J.C. Barbosa, "An adaptive penalty scheme for genetic algorithms in structural optimization", *International Journal for Numerical Methods in Engineering*, Vol. 59, No. 5, pp. 703–736, February 7, 2004 (**JOUR INT**).
30. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).
31. Xiaohui Hu, Russell C. Eberhart and Yuhui Shi, "Engineering Optimization with Particle Swarm", in *2003 IEEE Swarm Intelligence Symposium Proceedings*, IEEE Service Center, pp. 53–57, Indianapolis, Indiana, USA, April 2003 (**CONG INT**).
32. Pruettha Nanakorn & K. Meesomklin, "An adaptive penalty function in genetic algorithms for structural design optimization", *Computers and Structures*, Vol. 79, Nos. 29–30, pp. 2527–2539, November 2001. (**JOUR INT**)
33. Angel Fernando Kuri-Morales & Jesús Gutiérrez-García, "Penalty Function Methods for Constrained Optimization with Genetic Algorithms: A Statistical Analysis", in Carlos A. Coello Coello, Alvaro de Albornoz, Luis Enrique Sucar & Osvaldo Cairó Battistutti (eds), *MICAI 2002: Advances in Artificial Intelligence*, pp. 108–117, Springer-Verlag, Berlin, Lecture Notes in Artificial Intelligence, Vol. 2313, Abril 2002. (**CONG INT**)

- Carlos A. Coello Coello, "Evolutionary Multiobjective Optimization: A Historical View of the Field", *IEEE Computational Intelligence Magazine*, Vol. 1, No. 1, pp. 28–36, February 2006.

    1. Mario Köppen, Katrin Franke and Raul Vicente-Garcia, "Tiny GAs for image processing applications", *IEEE Computational Intelligence Magazine*, Vol. 1, No. 2, pp. 17–26, May 2006.
    2. C. Dimopoulos, "Explicit consideration of multiple objectives in cellular manufacturing", *Engineering Optimization*, Vol. 39, No. 5, pp. 551–565, July 2007.
    3. Min Zhang, Huantong Geng, Wenjian Luo, Linfeng Huang and Xufa Wang, "A hybrid of differential evolution and genetic algorithm for constrained multiobjective optimization problems", *Simulated Evolution and Learning, Proceedings*, pp. 318–327, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.

4. Mike Preuss, Boris Naujoks and Günter Rudolph, "Pareto Set and EMOA Behavior for Simple Multimodal Multiobjective Functions", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 513–522, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.

- Margarita Reyes-Sierra and Carlos A. Coello Coello, "Multi-Objective Particle Swarm Optimizers: A Survey of the State-of-the-Art", *International Journal of Computational Intelligence Research*, Vol. 2, No. 3, pp. 287–308, 2006.

    1. Jürgen Branke and Sanaz Mostaghim, "About Selecting the Personal Best in Multi-Objective Particle Swarm Optimization", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 523–532, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.

- Arturo Hernández Aguirre, Salvador Botello Rionda, Carlos A. Coello Coello, Giovanni Lizárraga Lizárraga, and Efrén Mezura Montes, "Handling Constraints using Multiobjective Optimization Concepts", *International Journal for Numerical Methods in Engineering*, Volume 59, No. 15, pp. 1989–2017, April 2004.

    1. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, "Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems", *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.
    2. Zhuhong Zhang, "Constrained multiobjective optimization immune algorithm: Convergence and application", *Computers & Mathematics with Applications*, Vol. 52, No. 5, pp. 791–808, September 2006.
    3. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
    4. Tetsuyuki Takahama and Setsuko Sakai, "Constrained Optimization by the ϵ Constrained Differential Evolution with Gradient-Based Mutation and Feasible Elites", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 308–315, IEEE, Vancouver, BC, Canada, July 2006.
    5. Jingxuan Wei and Yuping Wang, "A Novel Multi-objective PSO Algorithm for Constrained Optimization Problems", in T.-D. Wang et al. (editors), *Simulated Evolution and Learning (SEAL 2006)*, pp. 174–180, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.
    6. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.

7. Philip Hingston, Luigi Barone, Simon Huband and Lyndon While, "Multi-level Ranking for Constrained Multi-objective Evolutionary Optimisation", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 563–572, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
8. Fabio Freschi and Maurizio Repetto, "VIS: an artificial immune network for multi-objective optimization", *Engineering Optimization*, Vol. 38, No. 8, pp. 975–996, December 2006.
9. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
10. Yuping Wang, Dalian Liu, and Yiu-Ming Cheung, "Preference Bi-objective Evolutionary Algorithm for Constrained Optimization", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 184–191, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.
11. Tetsuyuki Takahama and Setsuko Sakai, "Constrained Optimization by Applying the α Constrained Method to the Nonlinear Simplex Method With Mutations", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 5, pp. 437–451, October 2005 (**JOUR INT**).
12. Fabio Freschi and Maurizio Repetto, "Multiobjective Optimization by a Modified Artificial Immune System Algorithm", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 248–261, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005 (**CONG INT**).
13. Pei Yee Ho and Kazuyuki Shimizu, "Simple Addition of Ranking Method for Constrained Optimization in Evolutionary Algorithm", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 889–896, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005 (**CONG INT**).
14. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

- **Carlos A. Coello Coello. "Treating Constraints as Objectives for Single-Objective Evolutionary Optimization", *Engineering Optimization*, Gordon and Breach Science Publishers, Vol. 32, No. 3, pp. 275–308, February, 2000.**

1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
2. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, "Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems", *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.
3. George G. Dimopoulos, "Mixed-variable engineering optimization based on evolutionary and social metaphors", *Computer Methods in Applied Mechanics and Engineering*, Vol. 196, Nos. 4–6, pp. 803–817, 2007.
4. Gary G. Yen, "Constraint Handling in Genetic Algorithm for Optimization", in Fei-Yue Wang and Derong Liu (editors), *Advances in Computational Intelligence. Theory and Applications*, pp. 145–170, World Scientific, Singapore, 2006 (**CAP LIB**).
5. Haiyan Lu and Weiqi Chen, "Dynamic-objective particle swarm optimization for constrained optimization problems", *Journal of Combinatorial Optimization*, Vol. 12, No. 4, pp. 409–419, December 2006 (**JOUR INT**).
6. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.
7. Oliver Kramer, Chuan-Kang Ting and Hans Kleine Büning, "A New Mutation Operator for Evolution Strategies for Constrained Problems", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2600–2606, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
8. S. Favuzza, M.G. Ippolito and E.R. Sanseverino, "Crowded comparison operators for constraints handling in NSGA-II for optimal design of the compensation system in electrical distribution networks", *Advanced Engineering Informatics*, Vol. 20, No. 2, pp. 201–211, April 2006.
9. D. Naso, B. Turchiano and C. Meloni, "Single and multi-objective evolutionary algorithms for the coordination of serial manufacturing operations", *Journal of Intelligent Manufacturing*, Vol. 17, No. 2, pp. 251–270, April 2006.
10. Shinya Watanabe and Kazutoshi Sakakibara, "Multi-objective approaches in a single-objective optimization environment", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1714–1721, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
11. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
12. Yuping Wang, Dalian Liu, and Yiu-Ming Cheung, "Preference Bi-objective Evolutionary Algorithm for Constrained Optimization", in Yue Hao et al.

(editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 184–191, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.

13. C.J.K. Lee, T. Furukawa and S. Yoshimura, "A human-like numerical technique for design of engineering systems", *International Journal for Numerical Methods in Engineering*, Vol. 64, No. 14, pp. 1915–1943, December 14, 2005.
14. S.S. Rao and Y. Xiong, "A hybrid genetic algorithm for mixed-discrete design optimization", *Journal of Mechanical Design*, Vol. 127, No. 6, pp. 1100-1112, November 2005.
15. M.S. Osman, M.A. Abo-Sinna and A.A. Mousa, "A combined genetic algorithm-fuzzy logic controller (GA-FLC) in nonlinear programming", *Applied Mathematics and Computation*, Vol. 170, No. 2, pp. 821–840, November 15, 2005.
16. Matěj Lepš, "Single and Multi-Objective Optimization in Civil Engineering", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 322–342, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).
17. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.
18. G. Ascia, V. Catania and D. Panno, "An evolutionary management scheme in high-performance packet switches", *IEEE-ACM Transactions on Networking*, Vol. 13, No. 2, pp. 262–275, April 2005 (**JOUR INT**).
19. T.P. Runarsson and X. Yao, "Search biases in constrained evolutionary optimization", *IEEE Transactions on Systems, Man, and Cybernetics Part C—Applications and Reviews*, Vol. 35, No. 2, pp. 233–243, May 2005 (**JOUR INT**).
20. Milan Zeleny, "The Evolution of Optimality: De Novo Programming", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 1–13, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
21. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A multiobjective genetic approach for system-level exploration in parameterized systems-on-a-chip", *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, Vol. 24, No. 4, pp. 635–645, April 2005 (**JOUR INT**).
22. M. Farina and P. Amato, "Linked interpolation-optimization strategies for multicriteria optimization problems", *Soft Computing–A Fusion of Foundations, Methodologies and Applications*, Springer-Verlag, Vol. 9, No. 1, pp. 54–65, January 2005.

23. Ramón Quiza Sardiñas, "Optimización Multiobjetivos del Proceso de Torneado", Tesis Doctoral, Facultad de Ingeniería Química y Mecánica, Departamento de Ingeniería Mecánica, Universidad de Matanzas "Camilo Cienfuegos", Cuba, 2004 (**TES DOC**).

24. B. Lin and D.C. Miller, "Tabu search algorithm for chemical process optimization", *Computers & Chemical Engineering*, Vol. 28, No. 11, pp. 2287–2306, October 15, 2004 (**JOUR INT**).

25. Sangameswar Venkatraman and Gary G. Yen, "A Simple Elitist Genetic Algorithm for Constrained Optimization" in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 288–295, Portland, Oregon, USA, June 2004 (**CONG INT**).

26. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A GA-Based Design Space Exploration Framework for Parameterized System-On-A-Chip Platforms", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 4, pp. 329–346, August 2004 (**JOUR INT**).

27. S. He, E. Prempain and Q.H. Wu, "An improved particle swarm optimizer for mechanical design optimization problems", *Engineering Optimization*, Vol. 36, No. 5, pp. 585–605, October 2004 (**JOUR INT**).

28. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

29. Andrea Edwards, "Using a parallel genetic algorithm to design vibratory bowl feeders", in *Proceedings of the 42nd ACM Annual Southeast Regional Conference*, pp. 320–325, ACM Press, Huntsville, Alabama, 2004 (**CONG INT**).

30. Jesus Dario Landa Silva, "Metaheuristic and Multiobjective Approaches for Space Allocation", PhD thesis, School of Computer Science and Information Technology, University of Nottingham, UK, November 2003 (**TES DOC**).

31. Ian C. Parmee, *Evolutionary and Adaptive Computing in Engineering Design*, Springer, London, 2001, ISBN 1-85233-029-5, p. 174 (**LIB ING**).

32. Raziyeh Farmani and Jonathan A. Wright, "Self-Adaptive Fitness Formulation for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 5, pp. 445–455, October 2003 (**JOUR INT**).

33. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).

34. B.J. Reardon, "Optimizing the hot isostatic pressing process", *Materials and Manufacturing Processes*, Vol. 18, No. 3, pp. 493–508, 2003 (**JOUR INT**).

35. Salvador Botello, Arturo Hernández y Giovanni Lizarraga, "IS-PAES: Un Nuevo Algoritmo Para la Optimización Multiobjetivo de Armaduras", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 27–42, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

36. David W. Corne, Kalyanmoy Deb, Peter J. Fleming and Joshua D. Knowles, "The Good of the Many Outweights the Good of the One: Evolutionary Multi-Objective Optimization", *Connections. The Newsletter of the IEEE Neural Networks Society*, Vol. 1, No. 1, pp. 9–13, ISSN 1543-4281, February 2003 (**REV DIV**).

37. D.J. Barrett, "Steady state turnover time of carbon in the Australian terrestrial biosphere", *Global Biogeochemical Cycles*, Vol. 16, No. 4, Art. No. 1108, December 3, 2002 (**JOUR INT**).

38. M. Cecilia Bastarrica, Rodrigo E. Caballero, Steven A. Demurjian, and Alex A. Shvartsman, "Two Optimization Techniques for Component-Based Systems Deployment", in *Proceedings of the 13th International Conference on Software Engineering and Knowledge Engineering (SEK'2001)*, Buenos Aires, Argentina, June 2001 (**CONG INT**).

39. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "Tuning Methodologies for Parameterized Systems Design", in *International Workshop on System-on-Chip for Real-Time Applications*, Banff, Canada, July 2002 (**CONG INT**).

40. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).

41. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A Novel Approach to Design Space Exploration of Parameterized SOCs", in *IFIP International Conference on Very Large Scale Integration, The Global System on Chip Design & CAD Conference, 11th Edition*, pp. 449–454, Montpellier, France, December 2001 (**CONG INT**).

42. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "An Evolutionary Approach for Pareto-optimal Configurations in SOC Platform", in Michel Robert, Bruno Rouzeyre, Christian Piguet and Marie-Lise Flottes (editors), *SOC Design Methodologies*, pp. 157–168, Kluwer Academic Publishers, ISBN 1-4020-7148-5, 2002 (**CAP LIB**).

43. J.A. Vasconcelos, R.L.S. Adriano, D.A.G. Vieira, G.F.D. Souza and H.S. Azevedo, "NSGA with Elitism Applied to Solve Multiobjective Optimization Problems", *Journal of Microwaves and Optoelectronics*, Vol. 2, No. 6, pp. 59–69, December 2002, ISSN 1516-7399 (**JOUR INT**).

44. Douglas A.G. Vieira, Ricardo L.S. Adriano, Laurent Krähenbül and João A. Vasconcelos, "Handling Constraints as Objectives in a Multiobjective

Genetic Based Algorithm", *Journal of Microwaves and Optoelectronics*, Vol. 2, No. 6, pp. 50–58, December 2002, ISSN 1516-7399 (**JOUR INT**).

45. V.S. Summanwar, V.K. Jayaraman, B.D. Kulkarni, H.S. Kusumakar, K. Gupta, and J. Rajesh, "Solution of constrained optimization problems by multi-objective genetic algorithm", *Computers and Chemical Engineering*, Vol. 26, No. 10, pp. 1481–1492, October 15, 2002 (**JOUR INT**).
46. Jin Wu, "Quality Assisted Multiobjective and Multidisciplinary Genetic Algorithms", PhD Thesis, Department of Mechanical Engineering, University of Maryland at College Park, College Park, Maryland, EUA, 2001 (**TES DOC**).
47. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "Parameterised System Design Based on Genetic Algorithms", *Proceedings of the Ninth International Symposium on Hardware/Software Codesign (CODES'2001)*, IEEE, pp. 177–182, 2001 (**CONG INT**).
48. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A Framework for Design Space Exploration of Parameterized VLSI Systems", *Proceedings of the 15th International Conference on VLSI Design*, IEEE, pp. 245–250, 2002 (**CONG INT**).
49. Giuseppe Ascia, Vincenzo Catania and Daniela Panno, "An efficient buffer management policy based on an integrated Fuzzy-GA approach", *The 21st Annual Joint Conference of the IEEE Computer and Communications Societies* (INFOCOM'2002), Vol. 2, pp. 1042–1048, IEEE, New York, June 2002 (**CONG INT**)
50. Kalyanmoy Deb, "Multi-Objective Optimization using Evolutionary Algorithms", John Wiley & Sons, Chichester, UK, 2001, pag. 173. (**LIB ING**)
51. Jin Wu and Shapour Azarm, "On a New Constraint Handling Technique for Multi-Objective Genetic Algorithms, in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 741–748, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)
52. David A. Van Veldhuizen and Gary B. Lamont. "Multiobjective Evolutionary Algorithms: Analyzing the State-of-the-Art", *Evolutionary Computation*, Vol. 8, No. 2, pp. 125–147, Summer 2000. (**JOUR INT**)
53. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

- **Carlos A. Coello Coello and Alan D. Christiansen. "MOSES : A Multiobjective Optimization Tool for Engineering Design", *Engineering Optimization*, Vol. 31, No. 3, pp. 337–368, 1999.**

1. M.K. Rahman, “An intelligent moving object optimization algorithm for design problems with mixed variables, mixed constraints and multiple objectives”, *Structural and Multidisciplinary Optimization*, Vol. 32, No. 1, pp. 40–58, July 2006.
2. Elizabeth F. Wanner, Frederico G. Guimaraes, Ricardo H.C. Takahashi and Peter J. Fleming, “A Quadratic Approximation-Based Local Search Procedure for Multiobjective Genetic Algorithms”, in *2006 IEEE Congress on Evolutionary Computation (CEC’2006)*, pp. 3361–3368, IEEE, Vancouver, BC, Canada, July 2006.
3. Hylke W. van Dijk, “Democratic Processing. Mastering the Complexity of Communicating Systems”, PhD thesis, Delft University of Technology, The Netherlands, November 2004 (**TES DOC**).
4. M.A. Abido, “Multiobjective Evolutionary Algorithms for Electric Power Dispatch Problem”, *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 315–329, June 2006.
5. C.J.K. Lee, T. Furukawa and S. Yoshimura, “A human-like numerical technique for design of engineering systems”, *International Journal for Numerical Methods in Engineering*, Vol. 64, No. 14, pp. 1915–1943, December 14, 2005.
6. Andrés L. Medaglia, “Simulation Optimization Using Soft Computing”, PhD thesis, North Carolina State University, USA, 2000 (**TES DOC**).
7. M.S. Levin and M.A. Firer, “Hierarchical morphological design of immunoassay technology”, *Computers in Biology and Medicine*, Vol. 35, No. 3, pp. 229–245, March 2005 (**JOUR INT**).
8. D. Sarkar and J.M. Modak, “Pareto-optimal solutions for multi-objective optimization of fed-batch bioreactors using nondominated sorting genetic algorithm”, *Chemical Engineering Science*, Vol. 60, No. 2, pp. 481–492, January 2005 (**JOUR INT**).
9. Y. Collette, P. Siarry and H.-I. Wong, “A Systematic Comparison of Performance of Various Multiple Objective Metaheuristics Using a Common Set of Analytical Test Functions”, *Foundations of Computing and Decision Sciences*, Vol. 25, No. 4, pp. 249–271, 2000 (**JOUR INT**).
10. Adil Baykasoğlu, “Preemptive goal programming using simulated annealing”, *Engineering Optimization*, Vol. 37, No. 1, pp. 49–63, January 2005 (**JOUR INT**).
11. Yann Collette and Patrick Siarry, “Multiobjective Optimization. Principles and Case Studies”, Springer, Berlin, 2003, ISBN 3-540-40182-2, página 21 (**LIB ING**).
12. Neil Holger White Eklund, “Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach”, PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).

13. Jesse B. Zydallis. "Explicit Building-Block Multiobjective Genetic Algorithms: Theory, Analysis, and Development", PhD thesis, Air Force Institute of Technology, Department of the Air Force, Air University, Wright-Patterson, Airforce Base, Ohio, USA, March 2003 (**TES DOC**).
14. M.A. Abido, "A novel multiobjective evolutionary algorithm or environmental/economic power dispatch", *Electric Power Systems Research*, Vol. 65, No. 1, pp. 71–81, April 2003 (**JOUR INT**).
15. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).
16. A. Herreros, E. Baeyens and J.R. Peran, "MRCD: A Genetic Algorithm for Multiobjective Robust Control Design", *Engineering Applications of Artificial Intelligence*, Vol. 15, Nos. 3–4, pp. 285–301, June-August 2002 (**JOUR INT**).
17. M.A. Abido, "A Niched Pareto Genetic Algorithm for Multiobjective Environmental/Economic Dispatch", *International Journal of Electrical Power & Energy Systems*, Vol. 25, No. 2, pp. 97–105, February 2003 (**JOUR INT**).
18. M.A. Abido, "A new multiobjective evolutionary algorithm for environmental/economic power dispatch", *Power Engineering Society Summer Meeting*, Vol. 2, pp. 1263–1268, IEEE, 2001 (**CONG INT**).
19. D.F. Jones, S.K. Mirrazavi, and M. Tamiz, "Multi-objective meta-heuristics: An overview of the current state-of-the-art", *European Journal of Operational Research*, Vol. 137, No. 1, pp. 1–9, February 2002. (**JOUR INT**)
20. A. Baykasoglu, "Goal programming using multiple objective tabu search", *Journal of the Operational Research Society*, Vol. 52, No. 12, pp. 1359–1369, December 2001. (**JOUR INT**)
21. Kalyanmoy Deb, "Multi-Objective Optimization using Evolutionary Algorithms", John Wiley & Sons, Chichester, UK, 2001, pag. 189. (**LIB ING**)
22. Katya Rodríguez-Vázquez. *Multiobjective Evolutionary Algorithms in Non-Linear System Identification*, PhD Thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, 1999. (**TES DOC**)
23. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)
24. Alberto Herreros López, "Diseño de Controladores Robustos Multiobjetivo por Medio de Algoritmos Genéticos", Tesis Doctoral, Departamento de Ingeniería de Sistemas y Automática, Universidad de Valladolid, Septiembre del 2000. (**TES DOC**)

- **Coello Coello, Carlos A. "Constraint-handling using an evolutionary multiobjective optimization technique", *Civil Engineering Systems*, Vol. 17, pp. 319–346, 2000.**

    1. Pei Yee Ho and Kazuyuki Shimizu, "Evolutionary constrained optimization using an addition of ranking method and a percentage-based tolerance value adjustment scheme", *Information Sciences*, Vol. 177, No. 14, pp. 2985–3004, July 15, 2007.
    2. M. Mahdavi, M. Fesanghary and E. Damangir, "An improved harmony search algorithm for solving optimization problems", *Applied Mathematics and Computation*, Vol. 188, No. 2, pp. 1567–1579, May 15, 2007.
    3. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New constraint-handling method for multi-objective and multi-constraint evolutionary optimization", *Transactions of the Japan Society for Aeronautical and Space Sciences*, Vol. 50, No. 167, pp. 56–62, May 2007.
    4. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
    5. Nicholas Young, "Coevolution and Encoding of Fuzzy Systems, and Multiobjective Optimisation", PhD thesis, Faculty of Business and Informatics, Central Queensland University, Australia, February 2007 (**TES DOC**).
    6. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, "Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems", *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.
    7. Kathrin Klamroth and Jorgen Tind, "Constrained optimization using multiple objective programming", *Journal of Global Optimization*, Vol. 37, No. 3, pp. 325–355, March 2007.
    8. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
    9. George G. Dimopoulos, "Mixed-variable engineering optimization based on evolutionary and social metaphors", *Computer Methods in Applied Mechanics and Engineering*, Vol. 196, Nos. 4–6, pp. 803–817, 2007.
    10. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
    11. Koji Shimoyama, "Robust Aerodynamic Design of Mars Exploratory Airplane Wing with a New Optimization Method", PhD thesis, School of Engineering, The University of Tokyo, Japan, February 2006 (**TES DOC**).
    12. Lino António Antunes Fernandes da Costa, "Algoritmos Evolucionários em Optimização Uni e Multi-objectivo", PhD thesis, Universidade do Minho, Portugal, March 2003 (**TES DOC**).

13. Jingxuan Wei and Yuping Wang, "A Novel Multi-objective PSO Algorithm for Constrained Optimization Problems", in T.-D. Wang et al. (editors), *Simulated Evolution and Learning (SEAL 2006)*, pp. 174–180, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.

14. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.

15. Tetsuyuki Takahama, Setsuko Sakai and Noriyuki Iwane, "Constrained optimization by the ϵ constrained hybrid algorithm of particle swarm optimization and genetic algorithm", in S. Zhang and R. Jarvis (editors), *AI 2005: Advances in Artificial Intelligence*, Springer-Verlag, pp. 389–400, Lecture Notes in Artificial Intelligence Vol. 3809, 2005.

16. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

17. Yuping Wang, Dalian Liu, and Yiu-Ming Cheung, "Preference Bi-objective Evolutionary Algorithm for Constrained Optimization", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 184–191, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.

18. Matěj Lepš, "Single and Multi-Objective Optimization in Civil Engineering", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 322–342, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).

19. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New Constraint-Handling Method for Multi-Objective Multi-Constraint Evolutionary Optimization and Its Application to Space Plane Design", in R. Schilling, W. Haase, J. Periaux, H. Baier and G. Bugeda (editors), *Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2005)*, Munich, Germany, 2005 (*CONG INT*).

20. Lauren Clevenger, Lauren Ferguson and William E. Hart, "Filter-Based Evolutionary Algorithm for Constrained Optimization", *Evolutionary Computation*, Vol. 13, No. 3, pp. 329–352, Fall 2005 (**JOUR INT**).

21. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

22. Bo Liao and Rein Luus, "Comparison of the Luus-Jaakola optimization procedure and the genetic algorithm", *Engineering Optimization*, Vol. 37, No. 4, pp. 381–398, June 2005 (**JOUR INT**).

23. Sanghamitra Bandyopadhyay, Sankar K. Pal and B. Aruna, "Multiobjective GAs, Quantitative Indices, and Pattern Classification", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 34, No. 5, pp. 2088–2099, October 2004 (**JOUR INT**).
24. Ming Yuchi and Jong-Hwan Kim, "Grouping-based Evolutionary Algorithm: Seeking Balance Between Feasible and Infeasible Individuals of Constrained Optimization Problems", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 280–287, Portland, Oregon, USA, June 2004 (**CONG INT**).
25. Lauren M. Clevenger and William E. Hart, "Convergence Examples of a Filter-Based Evolutionary Algorithm", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 666–677, Seattle, Washington, USA, June 2004 (**CONG INT**).
26. C.X. Yang, L.G. Tham, X. T. Feng, Y.J. Wang and P.K.K. Lee, "Two-stepped evolutionary algorithm and its application to stability analysis of slopes", *Journal of Computing in Civil Engineering*, Vol. 18, No. 2, pp. 145–153, April 2004 (**JOUR INT**).
27. Ming Yuchi and Jong-Hwan Kim, "A Grouping-based Algorithm for Constrained Optimization Problem", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1507–1512, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
28. Yuren Zhou, Yuanxiang Li, Jun He and Lishan Kang, "Multi-objective and MGG Evolutionary Algorithm for Constrained Optimization", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 1, pp. 1–5, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
29. J.E. Hurtado, "Reanalysis of linear and nonlinear structures using iterated Shanks transformation", *Computer Methods in Applied Mechanics and Engineering*, Vol. 191, Nos. 37–38, 2002 (**JOUR INT**).
30. J.E. Hurtado and D.A. Alvarez, "Optimización Estructural Basada en Confiabilidad por Medio de Redes Neuronales y Algoritmos Evolutivos", en E. Oñate, F. Zárate, G. Ayala, S. Botello y M.A. Moreles (eds.), *Métodos Numéricos en Ingeniería y Ciencias Aplicadas*, CIMNE-CIMAT, Vol. 1, pp. 369–378, ISBN 84-89925-92-5, Enero 2002 (**CONG NAC**).

- **Carlos A. Coello Coello and Alan D. Christiansen. "Two New GA-based methods for multiobjective optimization", *Civil Engineering and Environmental Systems*, Gordon and Breach Science Publishers, Vol. 15, No. 3, pp. 207–243, 1998.**

1. Gideon Avigad, "Search and Selection of Concepts in Multi-objective Engineering Problems Using Evolutionary Algorithms", PhD thesis, The Iby

and Aladar Fleischman Faculty of Engineering, The Zandman-Slaner Graduate School of Engineering, Tel Aviv University, Israel, November 2006 (**TES DOC**).

2. H. Yamachi, Y. Tsujimura, Y. Kambayashi and H. Yamamoto, "Multi-objective genetic algorithm for solving N-version program design problem", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 1083–1094, September 2006.
3. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.
4. S.K. Goudos and J.N. Sahalos, "Microwave absorber optimal design using multi-objective particle swarm optimization", *Microwave and Optical Technology Letters*, Vol. 48, No. 8, pp. 1553–1558, August 2006.
5. Nursel Öztürk, Ali R. Yildiz, Necmettin Kaya and Ferruh Öztürk, "Neuro-Genetic Design Optimization Framework to Support the Integrated Robust Design Optimization Process in CE", *Concurrent Engineering: Research and Applications*, Vol. 14, No. 1, pp. 5–16, March 2006.
6. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.
7. Andrés L. Medaglia, "Simulation Optimization Using Soft Computing", PhD thesis, North Carolina State University, USA, 2000 (**TES DOC**).
8. Rodrigo Evangelista de Castro, "Otimização de Estruturas Com Multi-Objetivos via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, August 2001 (in Portuguese) (**TES DOC**).
9. Karl Doerner, Walter J. Gutjahr, Richard F. Hartl, Christine Strauss and Christian Stummer, "Pareto Ant Colony Optimization: A Metaheuristic Approach to Multiobjective Portfolio Selection", *Annals of Operations Research*, Vol. 131 Nos. 1–4, pp. 79–99, October 2004 (**JOUR INT**).
10. Yann Collette and Patrick Siarry, "Multiobjective Optimization. Principles and Case Studies", Springer, Berlin, 2003, ISBN 3-540-40182-2 (**LIB ING**).
11. L.F. González, E.J. Whitney, K. Srinivas, K.C. Wong and J. Périaux, "Multidisciplinary Aircraft Conceptual Design Optimisation Using a Hierarchical Asynchronous Parallel Evolutionary Algorithm (HAPEA)", in I.C. Parmee (editor), *Adaptive Computing in Design and Manufacture VI*, pp. 273–284, Springer, London, 2004 (**CONG INT**).
12. Sang-Il Han, Itsuya Muta, Tsutomu Hoshino and Taketsune Nakamura, "Multiobjective Optimal Design of Superconducting Generator Using Genetic Algorithm", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 178–182,

Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).

13. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).
14. Stéphane Sanchez, Olivier Leroux, Véronique Gaildrat, et Hervé Luga, "Résolution d´un problème d´aménagement spatial à l´aide d´un algorithme génétique", AFIG'00, Grenoble, France, IMAG Grenoble, pp. 113–122, 29 novembre 1 décembre 2000 (**CONG INT**).
15. D.F. Jones, S.K. Mirrazavi, and M. Tamiz, "Multi-objective meta-heuristics: An overview of the current state-of-the-art", *European Journal of Operational Research*, Vol. 137, No. 1, pp. 1–9, February 2002. (**JOUR INT**)
16. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)
17. Matthias Ehrgott and Xavier Gandibleux, "A Survey and Annotated Bibliography of Multiobjective Combinatorial Optimization", *OR Spektrum*, Vol. 22, pp. 425–460, 2000. (**JOUR INT**)

- **Carlos A. Coello Coello, Alan D. Christiansen and Arturo Hernández Aguirre. "Using a New GA-Based Multiobjective Optimization Technique for the Design of Robot Arms", *Robotica*, Cambridge University Press, Vol. 16, No. 4, pp. 401–414, 1998.**

  1. A. Meghdari, H.N. Pishkenari, A.L. Gaskarimahalle, S.H. Mahboobi and R. Karimi, "A novel approach for optimal design of a rover mechanism", *Journal of Intelligent & Robotic Systems*, Vol. 44, No. 4, pp. 291–312, December 2005.
  2. Andrés L. Medaglia, "Simulation Optimization Using Soft Computing", PhD thesis, North Carolina State University, USA, 2000 (**TES DOC**).
  3. L.A. Wilson and M.D. Moore, "Cross-pollinating parallel genetic algorithms for multiobjective search and optimization", *International Journal of Foundations of Computer Science*, Vol. 16, No. 2, pp. 261–280, April 2005 (**JOUR INT**).
  4. Jason T.W. Teo, "Pareto Multi-Objective Evolution of Legged Embodied Organisms", PhD thesis, School of Computer Science, University of New South Wales, Australia, 2003 (**TES DOC**).
  5. Xiaopeng Fang, Brian Kellogg, Tye Conlan, Julie Dickerson and Di Cook, "High Dimensional System Design Using Genetic Algorithms & Visualization", in *Proceedings of the 2003 American Control Conference (ACC'2003)*, Vol. 6, pp. 4561–4566, IEEE, Denver, Colorado, USA, June 2003 (**CONG INT**).

6. Jason Teo and Hussein A. Abbass, "Elucidating the Benefits of A Self-Adaptive Pareto EMO Approach for Evolving Legged Locomotion in Artificial Creatures", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 755–762, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
7. M. Walker and R.E. Smith, "A technique for the multiobjective optimisation of laminated composite structures using genetic algorithms and finite element analysis", *Composite Structures*, Vol. 62, No. 1, pp. 123–128, October 2003 (**JOUR INT**).
8. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).
9. J. Teo and H.A. Abbass. "Multi-objectivity for brain-behavior evolution of a physically-embodied organism¡/A¿¡/b¿, in R. Standish, M. Bedau and H.A. Abbass, editors, *Artificial Life VIII: The 8th International Conference on Artificial Life*, pp. 312–318, Cambridge, MA, MIT Press, 2002 (**CONG INT**).
10. Jesse B. Zydallis. "Explicit Building-Block Multiobjective Genetic Algorithms: Theory, Analysis, and Development", PhD thesis, Air Force Institute of Technology, Department of the Air Force, Air University, Wright-Patterson, Airforce Base, Ohio, USA, March 2003 (**TES DOC**).
11. D.F. Jones, S.K. Mirrazavi, and M. Tamiz, "Multi-objective meta-heuristics: An overview of the current state-of-the-art", *European Journal of Operational Research*, Vol. 137, No. 1, pp. 1–9, February 2002. (**JOUR INT**)
12. Joshua D. Knowles, "Local-Search and Hybrid Evolutionary Algorithms for Pareto Optimization", PhD Thesis, The University of Reading, Department of Computer Science, Reading, UK, January 2002. (**TES DOC**)
13. Kishan Chetan Srigiriraju, "Noninferior Surface Tracing Evolutionary Algorithm (NSTEA) for Multi Objective Optimization", MS Thesis, North Carolina State University, Raleigh, North Carolina, August 2000. (**TES MAE**)
14. S. Ranji Ranjithan, S. Kishan Chetan and Harish K. Dakshina, "Constraint Method-Based Evolutionary Algorithm (CMEA) for Multiobjective Optimization", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 299–313, Marzo de 2001. (**CONG INT**)
15. David A. Van Veldhuizen. *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

- **Coello Coello, Carlos A. & Arturo Hernández Aguirre, "Design of Combinational Logic Circuits through an Evolutionary Multiobjective Optimization Approach",** ***Artificial Intelligence for Engineering, Design, Analysis and Manufacture*****, Cambridge University Press, Vol. 16, No. 1, pp. 39–53, January 2002.**

  1. Edgar Galván-López and Katya Rodríguez-Vázquez, "Multiple Interactive Outputs in a Single Tree: An Empirical Investigation", in Marc Ebner, Michael O'Neill, Anikó Ekárt, Leonardo Vanneschi and Anna Isabel Esparcia-Alcázar (editors), *Genetic Programming, 10th European Conference, EuroGP 2007*, pp. 341–350, Springer. Lecture Notes in Computer Science Vol. 4445, Valencia, Spain, April 2007.
  2. C. K. Goh and K. C. Tan, "An Investigation on Noisy Environments in Evolutionary Multiobjective Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 11, No. 3, pp. 354–381, June 2007.
  3. Ashwin Gurnani, Scott Ferguson, Kemper Lewis and Joseph Donndelinger, "A constraint-based approach to feasibility assessment in preliminary design", *AI EDAM-Artificial Intelligence for Engineering Design Analysis and Manufacturing*, Vol. 20, No. 4, pp. 351–367, Fall 2006.
  4. Dimo Brockhoff and Eckart Zitzler, "Are All Objectives Necessary? On Dimensionality Reduction in Evolutionary Multiobjective Optimization", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 533–542, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
  5. Shuguang Zhao and Licheng Jiao, "Multi-objective evolutionary design and knowledge discovery of logic circuits on an adaptive genetic algorithm", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 3, pp. 195–210, October 2006.
  6. P.W. Moore and G.K. Venayagamoorthy, "Evolving digital circuits using hybrid particle swarm optimization and differential evolution", *International Journal of Neural Systems*, Vol. 16, No. 3, pp. 163–177, June 2006.
  7. Pradondet Nilagupta and Nuchtiphong Ou-thong, "Logic Function Minimization Base on Transistor Count Using Gentic Algorithm", in *Proceedings of the 3rd Information and Computer Engineering Postgraduate Workshop 2003 (ICEP 2003)*, Songkla, Thailand, January 2003 (**CONG INT**).
  8. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).
  9. Venu G. Gudise and Ganesh K. Venayagamoorthy, "Evolving Digital Circuits Using Particle Swarm", *Proceedings of the INNS-IEEE International*

Joint Conference on Neural Networks, pp. 468–472, IEEE Press, Portland, Oregon, USA, July 20-24, 2003 (**CONG INT**).

10. Giovani Gomez Estrada, "A Note on Designing Logic Circuits Using SAT", in Andy M. Tyrell, Pauline C. Haddow and Jim Torresen (Eds), *Evolvable Systems: From Biology to Hardware. 5th International Conference, ICES 2003*, pp. 410–421, Springer, Lecture Notes in Computer Science, Vol. 2606, Trondheim, Norway, March 2003 (**CONG INT**).

- **Carlos A. Coello Coello and Alan D. Christiansen. "A Simple Genetic Algorithm for the design of reinforced concrete beams". *Engineering with Computers*. Springer-Verlag. Volume 13, No. 4, pp. 185–196, 1997.**

  1. V. Govindaraj and J.V. Ramasamy, "Optimum detailed design of reinforced concrete continuous beams using genetic algorithms", *Computers & Structures*, Vol. 84, Nos. 1–2, pp. 34–48, December 2005.
  2. D.F. Jones, S.K. Mirrazavi, and M. Tamiz, "Multi-objective meta-heuristics: An overview of the current state-of-the-art", *European Journal of Operational Research*, Vol. 137, No. 1, pp. 1–9, February 2002. (**JOUR INT**)
  3. M.N.S. Hadi & Y. Arfiadi, "Optimum rigid pavement design by genetic algorithms", *Computers and Structures*, Vol. 79, No. 17, pp. 1617–1624, July 2001. (**JOUR INT**)
  4. B. Ceranic and C. Fryer, "A Computer-Based, Interactive Genetic Algorithm Optimisation Design Tool (GENOD) for Reinforced Concrete Structure, *International Journal of Design Computing*, Vol 2, 2000. (disponible en:
     http://www.arch.usyd.EDU.AU/kcdc/journal/) (**JOUR INT**)

- Efrén Mezura Montes and Carlos A. Coello Coello, "A Simple Multi-Membered Evolution Strategy to Solve Constrained Optimization Problems", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 1, pp. 1–17, February 2005.

  1. Pei Yee Ho and Kazuyuki Shimizu, "Evolutionary constrained optimization using an addition of ranking method and a percentage-based tolerance value adjustment scheme", *Information Sciences*, Vol. 177, No. 14, pp. 2985–3004, July 15, 2007.
  2. Karin Zielinski and Rainer Laur, "Constrained Single-Objective Optimization Using Particle Swarm Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 1550–1557, IEEE, Vancouver, BC, Canada, July 2006.
  3. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, "Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems", *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.

4. Karin Zielinski and Rainer Laur, "Constrained Single-Objective Optimization Using Differential Evolution", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 927–934, IEEE, Vancouver, BC, Canada, July 2006.
5. Fu-zhuo Huang, Ling Wang and Qie He, "An effective co-evolutionary differential evolution for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 1, pp. 340–356, March 1, 2007.
6. Felipe Campelo, So Noguchi and Hajime Igarashi, "A new method for the robust design of high field, highly homogenous superconducting magnets using an immune algorithm", *IEEE Transactions on Applied Applied Superconductivity*, Vol. 16, No. 2, pp. 1316–1319, June 2006.
7. Yuanpng Guo, Xianbin Cao, Hongzhang Yin and Zeying Tang, "Coevolutionary optimization algorithm with dynamic sub-population size", *International Journal of Innovative Computing Information and Control*, Vol. 2, No. 2, pp. 435–448, April 2007.
8. Yiqing Luo, Xigang Yuan and Yongjian Liu, "An improved PSO algorithm for solving non-convex NLP/MINLP problems with equality constraints", *Computers & Chemical Engineering*, Vol. 31, No. 3, pp. 153–162, January 29, 2007.
9. Ehab Z. Elfeky, Ruhul A. Sarker and Daryl L. Essam, "A simple ranking and selection for constrained evolutionary optimization", *Simulated Evolution and Learning, Proceedings*, Springer, Lecture Notes in Computer Science Vol. 4247, pp. 537–544, 2006.
10. A.R. Yildiz and F. Ozturk, "Hybrid enhanced genetic algorithm to select optimal machining parameters in turning operation", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 12, pp. 2041–2053, December 2006.
11. Qie He and Ling Wang, "An effective co-evolutionary particle swarm optimization for constrained engineering design problems", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 1, pp. 89–99, February 2007.
12. Tetsuyuki Takahama and Setsuko Sakai, "Constrained Optimization by the ϵ Constrained Differential Evolution with Gradient-Based Mutation and Feasible Elites", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 308–315, IEEE, Vancouver, BC, Canada, July 2006.
13. Frederico G. Guimarães, Elizabeth F. Wanner, Felipe Campelo, Ricardo H.C. Takahashi, Hajime Igarashi, David A. Lowther and Jaime A. Ramírez, "Local Learning and Search in Memetic Algorithms", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 9841–9848, IEEE, Vancouver, BC, Canada, July 2006.
14. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.

15. Philip Hingston, Luigi Barone, Simon Huband and Lyndon While, "Multi-level Ranking for Constrained Multi-objective Evolutionary Optimisation", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 563–572, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
16. Abdel-Rahman Hedar A. Ahmed, "Studies on Metaheuristics for Continuous Global Optimization Problems", PhD thesis, Kyoto University, Kyoto, Japan, June 2004 (**TES DOC**).
17. A.R. Hedar and M. Fukushima, "Derivative-free filter simulated annealing method for constrained continuous global optimization", *Journal of Global Optimization*, Vol. 35, No. 4, pp. 521–549, August 2006.
18. Oliver Kramer, Chuan-Kang Ting and Hans Kleine Büning, "A New Mutation Operator for Evolution Strategies for Constrained Problems", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2600–2606, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
19. F. Campelo, F.G. Guimaraes, H. Igarashi, J.A. Ramirez and S. Noguchi, "A modified immune network algorithm for multimodal electromagnetic problems", *IEEE Transactions on Magnetics*, Vol. 42, No. 4, pp. 1111–1114, April 2006.
20. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
21. Hong Li, Yong-Chang Jiao and Yuping Wang, "Integrating the Simplified Interpolation into the Genetic Algorithm for Constrained Optimization Problems", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 247–254, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.
22. Yuping Wang, Dalian Liu, and Yiu-Ming Cheung, "Preference Bi-objective Evolutionary Algorithm for Constrained Optimization", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 184–191, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.
23. Oliver Kramer, Chaun-Kang Ting and Hans Kleine Büning, "A Mutation Operator for Evolution Strategies to Handle Constrained Problems", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 917–918, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.

- Ricardo Landa Becerra and Carlos A. Coello Coello, "Cultured differential evolution for constrained optimization", *Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 33–36, pp. 4303–4322, July 1, 2006.

1. M. Fatih Tasgetiren and P.N. Suganthan, "A Multi-Populated Differential Evolution Algorithm for Solving Constrained Optimization Problem", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 340–347, IEEE, Vancouver, BC, Canada, July 2006.
2. Qie He and Ling Wang, "A hybrid particle swarm optimization with a feasibility-based rule for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 2, pp. 1407–1422, March 15, 2007.
3. S.Y. Chong and M. Tremayne, "Combined optimization using cultural and differential evolution: application to crystal structure solution from powder diffraction data", *Chemical Communications*, Vol. 39, pp. 4078–4080, 2006.

- Carlos A. Coello Coello and Ricardo Landa Becerra, "Efficient Evolutionary Optimization through the use of a Cultural Algorithm", *Engineering Optimization*, Vol. 36, No. 2, pp. 219–236, April 2004.

    1. Herbert de Mélo Duarte, "Um estudo algortmico de problemas logísticos na indústria de petróleo e gás natural", MSc thesis, Universidade Federal do Rio Grande do Norte, Natal, Brasil, Noviembre de 2006.
    2. S.Y. Chong and M. Tremayne, "Combined optimization using cultural and differential evolution: application to crystal structure solution from powder diffraction data", *Chemical Communications*, Vol. 39, pp. 4078–4080, 2006.

- **Coello Coello, Carlos A.; Christiansen, Alan D. and Alonso Farrera, Francisco. "A Genetic Algorithm for the Optimal Design of Axially Loaded Non-prismatic Columns". *Civil Engineering Systems*. Gordon and Breach Science Publishers. Vol. 14. pp. 111–146, 1996.**

    1. I. U. Cagdas and S. Adali, "Optimization of clamped columns under distributed axial load and subject to stress constraints", *Engineering Optimization*, Vol. 39, No. 4, pp. 453–469, June 2007.

- **Coello Coello, Carlos A.; Santos Hernández, Filiberto and Alonso Farrera, Francisco. "Optimal Design of Reinforced Concrete Beams using Genetic Algorithms", *Expert Systems with Applications : An International Journal*, Volume 12, No. 1, pp. 101–108, January 1997.**

    1. Vanessa Cristina de Castilho, Mounir Khalil El Debs and Maria do Carmo Nicoletti, "Using a modified genetic algorithm to minimize the production costs for slabs of precast prestressed concrete joists", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 4, pp. 519–530, June 2007.
    2. M. Nehdi and T. Greenough, "Modeling shear capacity of RC slender beams without stirrups using genetic algorithms", *Smart Structures and Systems*, Vol. 3, No. 1, pp. 51–68, January 2007.

3. M.A. Abido, "Multiobjective Evolutionary Algorithms for Electric Power Dispatch Problem", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 315–329, June 2006.
4. V.C. de Castilho, M.D. Nicoletti and M.K. El Debs, "An investigation of the use of three selection-based genetic algorithm families when minimizing the production cost of hollow core slabs", *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 45–47, pp. 4651–4667, 2005.
5. Adam Berry and Peter Vamplew, "A Simplified Artificial Life Model for Multiobjective Optimisation: A Preliminary Report", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1331–1339, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
6. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).
7. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).
8. Andrzej Osyczka, "Evolutionary Algorithms for Single and Multicriteria Design Optimization", Physica Verlag, Germany, 2002, ISBN 3-7908-1418-0. Página 97. (**LIB ING**)
9. K.M. Zhao & J.K. Lee, "Generation of cyclic stress-strain curves for sheet metals", *Journal of Engineering Materials and Technology—Transactions of the ASME*, Vol. 123, No. 4, pp. 391–397, October 2001. (**JOUR INT**)

- **Coello Coello, Carlos A. & Christiansen, Alan D. "Multiobjective Optimization of Trusses using Genetic Algorithms", *Computers and Structures*, Vol. 75, No. 6, pp. 647–660, May 2000.**

1. Semya Elaoud, Taicir Loukil and Jacques Teghem, "The Pareto fitness genetic algorithm: Test function study", *European Journal of Operational Research*, Vol. 177, No. 3, pp. 1703–1719, March 16, 2007.
2. K. Atashkari, N. Nariman-Zadeh, M. Golcu, A. Khalkhali and A. Jamali, "Modelling and multi-objective optimization of a variable valve-timing spark-ignition engine using polynomial neural networks and evolutionary algorithms", *Energy Conversion and Management*, Vol. 48, No. 3, pp. 1029–1041, March 2007.
3. M. Ali-Tavoli, N. Nariman-Zadeh, A. Khakhali and M. Mehran, "Multi-objective optimization of abrasive flow machining processes using polynomial neural networks and genetic algorithms", *Machining Science and Technology*, Vol. 10, No. 4, pp. 491–510, October-December 2006.

4. S.F. Hwang and R.S. He, "Engineering optimization using a real-parameter genetic-algorithm-based hybrid method", *Engineering Optimization*, Vol. 38, No. 7, pp. 833–852, October 2006.
5. H.W. Chen and N.B. Chang, "Decision support for allocation of watershed pollution load using grey fuzzy multiobjective programming", *Journal of the American Water Resources Association*, Vol. 42, No. 3, pp. 725–745, June 2006.
6. H.Z. Huang, Y.K. Gu and X.P. Du, "An interactive fuzzy multi-objective optimization method for engineering design", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 5, pp. 451–460, August 2006.
7. N. Nariman-Zadeh, A. Darvizeh and A. Jamali, "Pareto optimization of energy absorption of square aluminium columns using multi-objective genetic algorithms", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 2, pp. 213–224, February 2006.
8. P.A. Makris, C.G. Provatidis and D.T. Venetsanos, "Structural optimization of thin-walled tubular trusses using a virtual strain energy density approach", *Thin-Walled Structures*, Vol. 44, No. 2, pp. 235–246, February 2006.
9. P. Agarwal and A.M. Raich, "Design and optimization of steel trusses using genetic algorithms, parallel computing, and human-computer interaction", *Structural Engineering and Mechanics*, Vol. 23, No. 4, pp. 325–337, July 10, 2006.
10. Francisco Alberto Alonso Farrera, "Optimización Conjunta de las Políticas de Mantenimiento y Rehabilitación en Puentes Mediante Algoritmos Genéticos. Aplicación al Sistema de Gestión de Puentes del Estado de Chiapas (México)", Tesis Doctoral, Departament d'Enginyeria de la Construcció, Universitat Politècnica de Catalunya, Barcelona, España, Mayo de 2006 (**TES DOC**).
11. C.J.K. Lee, T. Furukawa and S. Yoshimura, "A human-like numerical technique for design of engineering systems", *International Journal for Numerical Methods in Engineering*, Vol. 64, No. 14, pp. 1915–1943, December 14, 2005.
12. K. Atashkari, N. Nariman-Zadeh, A. Pilechi, A. Jamali and X. Yao, "Thermodynamic Pareto optimization of turbojet engines using multi-objective genetic algorithms", *International Journal of Thermal Sciences*, Vol. 44, No. 11, pp. 1061–1071, November 2005.
13. Jessica Andrea Carballido, "Diseño de Algoritmos Evolutivos para Localización Inicial Óptima de Sensores en Plantas Industriales", PhD thesis, Universidad Nacional del Sur, Bahía Blanca, Argentina, 2005 (**TES DOC**).
14. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

15. N. Nariman-Zadeh, K. Atashkari, A. Jamali, A. Pilechi and X. Yao, "Inverse modelling of multi-objective thermodynamically optimized turbojet engines using GMDH-type neural networks and evolutionary algorithms", *Engineering Optimization*, Vol. 37, No. 5, pp. 437–462, July 2005.
16. J. Martin, C. Bielza and D.R. Insua, "Approximating nondominated sets in continuous multiobjective optimization problems", *Naval Research Logistics*, Vol. 52, No. 5, pp. 469–480, August 2005.
17. Marcos Martinez Silvoso, "Otimização da Fase Construtiva de Estruturas de Concreto em Face Dos Efeitos da Hidratação via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Brasil, March 2003 (**TES DOC**).
18. Chung-Huei Chueh, "An Immune Algorithm for Engineering Optimization", PhD thesis, Department of Mechanical Engineering, Tatung University, Taipei, Taiwan, July 2004 (**TES DOC**).
19. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).
20. David Greiner, Gabriel Winter, José M. Emperador and Blas Galván, "Gray Coding in Evolutionary Multicriteria Optimization: Application in Frame Structural Optimum Design", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 576–591, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
21. Sanghamitra Bandyopadhyay, Sankar K. Pal and B. Aruna, "Multiobjective GAs, Quantitative Indices, and Pattern Classification", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 34, No. 5, pp. 2088–2099, October 2004 (**JOUR INT**).
22. Min Liu, "Development of Multiobjective Optimization Procedures for Seismic Design of Steel Moment Frame Structures", PhD thesis, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES DOC**).
23. Guan-Chun Luh and Chung-Huei Chueh, "Multi-objective optimal design of truss structure with immune algorithm", *Computers & Structures*, Vol. 82, Nos. 11–12, pp. 829–844, May 2004 (**JOUR INT**).
24. P. Sivakumar, A. Rajaraman, G.M.S. Knight and D.S. Ramachandramurthy, "Object-oriented optimization approach using genetic algorithms for lattice towers", *Journal of Computing in Civil Engineering*, Vol. 18, No. 2, pp. 162–171, April 2004 (**JOUR INT**).
25. E.M.R. Fairbairn, M.M. Silvoso, R.D. Toledo, J.L.D. Alves and N.F.F. Ebecken, "Optimization of mass concrete construction using genetic algorithms", *Computers & Structures*, Vol. 82, Nos. 2–3, pp. 281–299, January 2004 (**JOUR INT**).

26. S.Y. Woon, Q.M. Querin and G.P. Steven, "On improving the GA step-wise shape optimization method through the application of the Fixed Grid FEA paradigm", *Structural and Multidisciplinary Optimization*, Vol. 25, No. 4, pp. 270–278, October 2003 (**JOUR INT**).
27. N. Ali, K. Behdinan and Z. Fawaz, "Applicability and viability of a GA based finite element analysis architecture for structural design optimization", *Computers & Structures*, Vol. 81, Nos. 22–23, pp. 2259–2271, September 2003 (**JOUR INT**).
28. M. Papadrakakis, N.D. Lagaros and V. Plevris, "Multi-objective optimization of skeletal structures under static and seismic loading conditions", *Engineering Optimization*, Vol. 34, No. 6, pp. 645–669, December 2002 (**JOUR INT**).
29. A. Nag, D.R. Mahapatra and S. Gopalakrishnan, "Identification of delamination in composite beams using spectral estimation and a genetic algorithm", *Smart Materials & Structures*, Vol. 11, No. 6, pp. 899–908, December 2002 (**JOUR INT**).
30. L. Blasi, L. Iuspa and G. Del Core, "Speed-sensitivity analysis by a genetic multiobjective optimization technique", *Journal of Aircraft*, Vol. 39, No. 6, pp. 1076–1079, November-December 2002 (**JOUR INT**).
31. Rafael Caballero, Julián Molina, Trinidad Gómez, Mariano Luque and Angel Torrico, "A Genetic Algorithm to Solve an Integer Goal Programming Model for the Higher Education", in *EU/ME European Chapter On Metaheuristics*, Paris, France, November 2002 (**CONG INT**).
32. Laurent Grosset, Satchi Venkataraman and Raphael T. Haftka, "Genetic optimization of two-material composite laminates", in *Proceedings of the American Society of Composites-16th Annual Technical Conference*, September 9-12, 2001, Blacksburg, VA (**CONG INT**).
33. V.S. Summanwar, V.K. Jayaraman, B.D. Kulkarni, H.S. Kusumakar, K. Gupta, and J. Rajesh, "Solution of constrained optimization problems by multi-objective genetic algorithm", *Computers and Chemical Engineering*, Vol. 26, No. 10, pp. 1481–1492, October 15, 2002 (**JOUR INT**).
34. Kishan Chetan Srigiriraju, "Noninferior Surface Tracing Evolutionary Algorithm (NSTEA) for Multi Objective Optimization", MS Thesis, North Carolina State University, Raleigh, North Carolina, August 2000. (**TES MAE**)
35. S. Ranji Ranjithan, S. Kishan Chetan and Harish K. Dakshina, "Constraint Method-Based Evolutionary Algorithm (CMEA) for Multiobjective Optimization", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 299–313, Marzo de 2001. (**CONG INT**)

- **Coello Coello, Carlos A., Zavala Gutiérrez, Rosa Laura, Mendoza García, Benito, Hernández Aguirre, Arturo, "Automated Design of Combinational**

Logic Circuits using the Ant System", *Engineering Optimization*, Vol. 34, No. 2, pp. 109–127, March 2002.

1. Jenn-Long Liu, "Rank-based ant colony optimization applied to dynamic traveling salesman problems", *Engineering Optimization*, Vol. 37, No. 8, pp. 831–847, December 2005.
2. Giovani Gomez Estrada, "A Note on Designing Logic Circuits Using SAT", in Andy M. Tyrell, Pauline C. Haddow and Jim Torresen (Eds), *Evolvable Systems: From Biology to Hardware. 5th International Conference, ICES 2003*, pp. 410–421, Springer, Lecture Notes in Computer Science, Vol. 2606, Trondheim, Norway, March 2003 (**CONG INT**).

- **Mendoza García, Benito and Coello Coello, Carlos A. "An Approach Based on the Use of the Ant System to Design Combinational Logic Circuits", *Mathware and Soft Computing*, Vol. IX, Nos. 2–3, pp. 235–250, 2002, ISSN: 1134-5632.**

  1. O. Cordón, F. Herrera and T. Stützle, "A Review of the Ant Colony Optimization Metaheuristic: Basis, Models and New Trends", *Mathware & Soft Computing*, Vol. IX, Nos. 2–3, pp. 141–175, 2002 (**JOUR INT**).

- **Carlos A. Coello Coello, Alan D. Christiansen and Arturo Hernández Aguirre, "Use of Evolutionary Techniques to Automate the Design of Combinational Circuits", *International Journal of Smart Engineering System Design*, Gordon and Breach Science Publishers, Vol. 2, No. 4, pp. 299–314, June 2000.**

  1. A. Slowik and M. Bialko, "Evolutionary design and optimization of combinational digital circuits with respect to transistor count", *Bulletin of the Polish Academy of Sciences. Technical Sciences*, Vol. 54, No. 4, pp. 437–442, 2006 (**JOUR INT**).
  2. Shuguang Zhao and Licheng Jiao, "Multi-objective evolutionary design and knowledge discovery of logic circuits on an adaptive genetic algorithm", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 3, pp. 195–210, October 2006.
  3. Emanuele Stomeo, Tatiana Kalganova and Cyrille Lambert, "Generalized Disjunction Decomposition for Evolvable Hardware", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 36, No. 5, pp. 1024–1043, October 2006.
  4. Shuguang Zhao, Licheng Jiao and Jun Zhao, "Multi-objective Evolutionary Design and Knowledge Discovery of Logic Circuits with an Improved Genetic Algorithm", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 273–278, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.

5. Shuguang Zhao, Jianxun Zhao and Licheng Jiao, "Adaptive Genetic Algorithm Based Approach for Evolutionary Design and Multi-objective Optimization of Logic Circuits, in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 67–72, IEEE Computer Society Press, Los Alamitos, California, July 2005.
6. E. Stomeo, T. Kalganova, C. Lambert, N. Lopnitsakya and Y. Yatskevich, "On Evolution of Relatively Large Combinational Logic Circuits", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 59–66, IEEE Computer Society Press, Los Alamitos, California, July 2005.
7. Michael Adam Lones, "Enzyme Genetic Programming. Modelling Biological Evolvability in Genetic Programming", PhD thesis, Department of Electronics, University of York, Heslington, York, UK, September 2003 (**TES DOC**).
8. Said M. Sait and Mahammad Al-Ismail, "Enhanced Simulated Evolution Algorithm for Digital Circuit Design Yielding Faster Execution in a Larger Solution Space", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1794–1799, Portland, Oregon, USA, June 2004 (**CONG INT**).
9. Z.Y. Wang, B.X. Shi and E. Zhao, "Bandwidth-delay-constrained least-cost multicast routing based on heuristic genetic algorithm", *Computer Communications*, Vol. 24, Nos. 7–8, pp. 685–692, April 1, 2001 (**JOUR INT**).
10. Adam Slowik and Michal Bialko, "Design and Optimization of Combinational Digital Circuits Using Modified Evolutionary Algorithm", in Leszek Rutkowski, Jörg H. Siekmann, Ryszard Tadeusiewicz and Lotfi A. Zadeh (Editors), *Artificial Intelligence and Soft Computing - ICAISC 2004, 7th International Conference. Proceedings*, Springer. Lecture Notes in Computer Science Vol. 3070, pp. 468–473, Zakopane, Poland, June 2004 (**CONG INT**).
11. Pradondet Nilagupta and Nuchtiphong Ou-thong, "Logic Function Minimization Base on Transistor Count Using Gentic Algorithm", in *Proceedings of the 3rd Information and Computer Engineering Postgraduate Workshop 2003 (ICEP 2003)*, Songkla, Thailand, January 2003 (**CONG INT**).
12. A.T. Haghighat, K. Faez, M. Dehghan, A. Mowlaei and Y. Ghahremani, "GA-based heuristic algorithms for bandwidth-delay-constrained least-cost multicast routing", *Computer Communications*, Vol. 27, No. 1, pp. 111–127, January 1, 2004 (**JOUR INT**).
13. Uthman Salem Al-Saiari, "Digital Circuit Design Through Simulated Evolution", Masters Thesis, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia (**TES MAE**).
14. Sadiq M. Sait, Mostafa Abd-El-Barr, Uthman S. Al-Saiari and Bambang A.B. Sarif, "Digital Circuit Design Through Simulated Evolution (SimE)",

in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 375–381, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

15. Lyudmilla Zinchenko, Heinz Mülenbein, Victor Kureichik and Thilo Mahnig, "Application of the Univariate Marginal Distribution Algoritm to Analog Circuit Design", in Adrian Stoica, Jason Lohn, Rich Katz, Didie Keymeulen, and Ricardo Salem Zebulum (eds), *Proceedings of the 2002 NASA/DoD Conference on Evolvable Hardware*, pp. 93–101, IEEE Computer Society, Los Alamitos, California, July 2002 (**CONG INT**).
16. Timothy G. W. Gordon and Peter J. Bentley, "On Evolvable Hardware", in S. Ovaska and L. Sztandera (eds), *Soft Computing in Industrial Electronics*, pp. 279–323, Physica-Verlag, Heidelberg, Germany, 2002 (**CAP LIB**).
17. Michael A. Lones and Andy M. Tyrell, "Biomimetic Representation with Genetic Programming Enzyme", *Genetic Programming and Evolvable Machines*, Volume 3, Number 2, pp. 193–217, June 2002 (**JOUR INT**).
18. Tatiana Kalganova, "An Extrinsic Function-Level Evolvable Hardware Approach", *Genetic Programming. European Conferece, EuroGP 2000*, Riccardo Poli, Wolfgang Banzhaf, William B. Langdon, Julian Miller, Peter Nordin & Terence C. Fogarty (Eds.), Springer, Berlin, pp. 60–75, April 2000. (**CONG INT**)
19. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)

- **Coello Coello, Carlos A.; Christiansen, Alan D. and Hernández Aguirre, Arturo, "Towards Automated Evolutionary Design of Combinational Circuits", *Computers and Electrical Engineering. An International Journal*, Pergamon Press, Vol. 27, No. 1, pp. 1–28, January 2001.**

1. N. Nedjah and L.M. Mourelle, "Evolving Optimal Multi-Objective Hardware using Strength Pareto Evolutionary Algorithms", *International Journal of Computers, Systems and Signals*, Vol. 6, No. 1, pp. 37–47, 2005 (**JOUR INT**).
2. Shuguang Zhao and Licheng Jiao, "Multi-objective evolutionary design and knowledge discovery of logic circuits on an adaptive genetic algorithm", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 3, pp. 195–210, October 2006.
3. Emanuele Stomeo, Tatiana Kalganova and Cyrille Lambert, "Generalized Disjunction Decomposition for Evolvable Hardware", *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, Vol. 36, No. 5, pp. 1024–1043, October 2006.
4. W. Pedrycz, M. Reformat and K.W. Li, "OR/AND neurons and the development of interpretable logic models", *IEEE Transactions on Neural Networks*, Vol. 17, No. 3, pp. 636–658, May 2006.

5. E. Stomeo, T. Kalganova, C. Lambert, N. Lopnitsakya and Y. Yatskevich, "On Evolution of Relatively Large Combinational Logic Circuits", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 59–66, IEEE Computer Society Press, Los Alamitos, California, July 2005.
6. N. Nedjah and L.D.M. Mourelle, "Pareto-optimal hardware for digital circuits using SPEA", in *Innovations in Applied Artificial Intelligence*, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 3533, pp. 594–604, 2005.
7. Bambang A.B. Sarif, Mostafa Abd-El-Barr, Sadiq M. Sait and Uthman Al-Saiari, "Fuzzified Ant Colony Optimization Algorithm for Efficient Combinational Circuits Synthesis", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1317–1324, Portland, Oregon, USA, June 2004 (**CONG INT**).
8. N. Nedjah and L.D. Mourelle, "A comparison of two circuit representations for evolutionary digital circuit design", in *Innovations in Applied Artificial Intelligence*, Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 3029, pp. 594–604, 2004 (**JOUR INT**).
9. N. Nedjah and L.D. Mourelle, "Evolvable hardware using genetic programming", *Intelligent Data Engineering and Automated Learning*, Springer, Lecture Notes in Computer Science, Vol. 2690, pp. 321–328, 2003 (**CONG INT**).
10. Pradondet Nilagupta and Nuchtiphong Ou-thong, "Logic Function Minimization Base on Transistor Count Using Gentic Algorithm", in *Proceedings of the 3rd Information and Computer Engineering Postgraduate Workshop 2003 (ICEP 2003)*, Songkla, Thailand, January 2003 (**CONG INT**).
11. Uthman Salem Al-Saiari, "Digital Circuit Design Through Simulated Evolution", Masters Thesis, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia (**TES MAE**).
12. Sadiq M. Sait, Mostafa Abd-El-Barr, Uthman S. Al-Saiari and Bambang A.B. Sarif, "Digital Circuit Design Through Simulated Evolution (SimE)", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 375–381, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
13. Igor Baradavka and Tatiana Kalganova, "Assembling Strategies in Extrinsic Evolvable Hardware with Bidirectional Incremental Evolution", in Conor Ryan, Terence Soule, Maarten Keijzer, Edward Tsang, Riccardo Poli and Ernesto Costa (eds.), *Proceedings of the 6th European Conference on Genetic Programming, EuroGP 2003*, pp. 276–285, Springer, Lecture Notes in Computer Science, Vol. 2610, April 2003 (**CONG INT**).
14. Venu G. Gudise and Ganesh K. Venayagamoorthy, "Evolving Digital Circuits Using Particle Swarm", *Proceedings of the INNS-IEEE International*

Joint Conference on Neural Networks, pp. 468–472, IEEE Press, Portland, Oregon, USA, July 20-24, 2003 (**CONG INT**).

15. Timothy G.W. Gordon and Peter J. Bentley, "Towards Development in Evolvable Hardware", in Adrian Stoica, Jason Lohn, Rich Katz, Didie Keymeulen, and Ricardo Salem Zebulum (eds), *Proceedings of the 2002 NASA/DoD Conference on Evolvable Hardware*, pp. 241–250, IEEE Computer Society, Los Alamitos, California, July 2002 (**CONG INT**).
16. Rami Abielmona and Voicu Groza, "Circuit synthesis evolution using a hardware-based genetic algorithm", *CCECE 2001—Canadian Conference on Electrical and Computer Engineering*, pp. 963–967, Toronto, Canada, June 2001 (**CONG INT**)
17. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)

- **Carlos A. Coello Coello, "Theoretical and Numerical Constraint-Handling Techniques used with Evolutionary Algorithms: A Survey of the State of the Art", *Computer Methods in Applied Mechanics and Engineering*, Vol. 191, No. 11–12, pp. 1245–1287, January 2002.**

1. Pei Yee Ho and Kazuyuki Shimizu, "Evolutionary constrained optimization using an addition of ranking method and a percentage-based tolerance value adjustment scheme", *Information Sciences*, Vol. 177, No. 14, pp. 2985–3004, July 15, 2007.
2. M. Mahdavi, M. Fesanghary and E. Damangir, "An improved harmony search algorithm for solving optimization problems", *Applied Mathematics and Computation*, Vol. 188, No. 2, pp. 1567–1579, May 15, 2007.
3. Karin Zielinski and Rainer Laur, "Constrained Single-Objective Optimization Using Particle Swarm Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 1550–1557, IEEE, Vancouver, BC, Canada, July 2006.
4. Daniel E. Salazar and Claudio M. Rocco, "Solving advanced multi-objective robust designs by means of multiple objective evolutionary algorithms (MOEA): A reliability application", *Reliability Engineering & System Safety*, Vol. 92, No. 6, pp. 697–706, June 2007.
5. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New constraint-handling method for multi-objective and multi-constraint evolutionary optimization", *Transactions of the Japan Society for Aeronautical and Space Sciences*, Vol. 50, No. 167, pp. 56–62, May 2007.
6. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).

7. Nicholas Young, “Coevolution and Encoding of Fuzzy Systems, and Multiobjective Optimisation”, PhD thesis, Faculty of Business and Informatics, Central Queensland University, Australia, February 2007 (**TES DOC**).
8. Yong Wang, Zixing Cai, Guanqi Guo and Yuren Zhou, “Multiobjective optimization and hybrid evolutionary algorithm to solve constrained optimization problems”, *IEEE Transactions on Systems, Man and Cybernetics Part B–Cybernetics*, Vol. 37, No. 3, pp. 560–575, June 2007.
9. Biruk Tessema and Gary G. Yen, “A Self Adaptive Penalty Function Based Algorithm for Constrained Optimization”, in *2006 IEEE Congress on Evolutionary Computation (CEC’2006)*, pp. 950–957, IEEE, Vancouver, BC, Canada, July 2006.
10. Karin Zielinski and Rainer Laur, “Constrained Single-Objective Optimization Using Differential Evolution”, in *2006 IEEE Congress on Evolutionary Computation (CEC’2006)*, pp. 927–934, IEEE, Vancouver, BC, Canada, July 2006.
11. Vladimir B. Gantovnik, “An Improved Genetic Algorithm for the Optimization of Composite Structures”, PhD thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, August 2005 (**TES DOC**).
12. M. Fatih Tasgetiren and P.N. Suganthan, “A Multi-Populated Differential Evolution Algorithm for Solving Constrained Optimization Problem”, in *2006 IEEE Congress on Evolutionary Computation (CEC’2006)*, pp. 340–347, IEEE, Vancouver, BC, Canada, July 2006.
13. Fu-zhuo Huang, Ling Wang and Qie He, “An effective co-evolutionary differential evolution for constrained optimization”, *Applied Mathematics and Computation*, Vol. 186, No. 1, pp. 340–356, March 1, 2007.
14. Qie He and Ling Wang, “A hybrid particle swarm optimization with a feasibility-based rule for constrained optimization”, *Applied Mathematics and Computation*, Vol. 186, No. 2, pp. 1407–1422, March 15, 2007.
15. L.J. Li, Z.B. Huang, F. Liu and Q.H. Wu, “A heuristic particle swarm optimizer for optimization of pin connected structures”, *Computers & Structures*, Vol. 85, Nos. 7–8, pp. 340–349, April 2007.
16. Jochen Till, Guido Sand, Maren Urselmann and Sebastian Engell, “A hybrid evolutionary algorithm for solving two-stage stochastic integer programs in chemical batch scheduling”, *Computers & Chemical Engineering*, Vol. 31, Nos. 5–6, pp. 630–647, May-June 2007.
17. Saeed Parsa and Omid Bushehrian, “Genetic clustering with constraints”, *Journal of Research and Practice in Information Technology*, Vol. 39, No. 1, pp. 47–60, February 2007.
18. X. Blasco, M. Martinez, J.M. Herrero, C. Ramos and J. Sanchis, “Model-based predictive control of greenhouse climate for reducing energy and water consumption”, *Computers and Electronics in Agriculture*, Vol. 55, No. 1, pp. 49–70, January 2007.

19. E.S. Kameshki and M.P. Saka, "Optimum geometry design of nonlinear braced domes using genetic algorithm", *Computers & Structures*, Vol. 85, Nos. 1–2, pp. 71–79, January 2007.
20. A.N. Martinez-Garcia and J. Anderson, "Carnico-ICSPEA2 - A metaheuristic co-evolutionary navigator for a complex co-evolutionary farming system", *European Journal of Operational Research*, Vol. 179, No. 3, pp. 634–655, June 16, 2007.
21. Qie He and Ling Wang, "An effective co-evolutionary particle swarm optimization for constrained engineering design problems", *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 1, pp. 89–99, February 2007.
22. George G. Dimopoulos, "Mixed-variable engineering optimization based on evolutionary and social metaphors", *Computer Methods in Applied Mechanics and Engineering*, Vol. 196, Nos. 4–6, pp. 803–817, 2007.
23. Andy Pryke and Harry Evdorides and Rawya Abu Ermaileh, "Optimization of pavement design using a genetic algorithm", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3840–3843, IEEE, Vancouver, BC, Canada, July 2006.
24. J.M. Lucas, H. Martinez and F. Jimenez, "Fuzzy Tuning for the Docking Maneuver Controller of an Automated Guided Vehicle", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 585–600, Springer. Studies in Computational Intelligence, Volume 16, Berlin, 2006 (**CAP LIB**).
25. Jochen Till, Sebastian Engell and Guido Sand, "Rigorous vs. Stochastic Algorithms for Two-stage Stochastic Integer Programming Applications", *International Journal of Information Technology*, Vol. 11, No. 5, pp. 106–115, 2005, Singapur (**JOUR INT**).
26. Gary G. Yen, "Constraint Handling in Genetic Algorithm for Optimization", in Fei-Yue Wang and Derong Liu (editors), *Advances in Computational Intelligence. Theory and Applications*, pp. 145–170, World Scientific, Singapore, 2006 (**CAP LIB**).
27. Haiyan Lu and Weiqi Chen, "Dynamic-objective particle swarm optimization for constrained optimization problems", *Journal of Combinatorial Optimization*, Vol. 12, No. 4, pp. 409–419, December 2006 (**JOUR INT**).
28. Tetsuyuki Takahama and Setsuko Sakai, "Constrained Optimization by the ϵ Constrained Differential Evolution with Gradient-Based Mutation and Feasible Elites", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 308–315, IEEE, Vancouver, BC, Canada, July 2006.
29. Michael T.M. Emmerich, "Single- and Multi-objective Evolutionary Design Optimization Assisted by Gaussian Random Field Metamodels", PhD thesis, University of Dortmund, October 2005 (**TES DOC**).
30. Francesco di Pierro, "Many-Objective Evolutionary Algorithms and Applications to Water Resources Engineering", PhD thesis, School of Engineering, Computer Science and Mathematics, University of Exeter, UK, August 2006 (**TES DOC**).

31. Zixing Cai and Yong Wang, "A Multiobjective Optimization-Based Evolutionary Algorithm for Constrained Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 6, pp. 658–675, December 2006.
32. Tetsuyuki Takahama, Setsuko Sakai and Noriyuki Iwane, "Constrained optimization by the ϵ constrained hybrid algorithm of particle swarm optimization and genetic algorithm", in S. Zhang and R. Jarvis (editors), *AI 2005: Advances in Artificial Intelligence*, Springer-Verlag, pp. 389–400, Lecture Notes in Artificial Intelligence Vol. 3809, 2005.
33. S. Sreeram, A.S. Kumar, M. Rahman and M.T. Zaman, "Optimization of cutting parameters in micro end milling operations in dry cutting condition using genetic algorithms", *International Journal of Advanced Manufacturing Technology*, Vol. 30, Nos. 11–12, pp. 1030–1039, October 2006.
34. Philip Hingston, Luigi Barone, Simon Huband and Lyndon While, "Multi-level Ranking for Constrained Multi-objective Evolutionary Optimisation", in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 563–572, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.
35. Per Persson, "Annealing Based Optimization Methods for Signal Processing Applications", PhD thesis, Department of Telecommunications and Signal Processing, Blekinge Institute of Technology, Ronneby, Sweden, 2003 (**TES DOC**).
36. D. Salazar, C.M. Rocco and B.J. Galvan, "Optimization of constrained multiple-objective reliability problems using evolutionary algorithms", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 1057–1070, September 2006.
37. Abdel-Rahman Hedar A. Ahmed, "Studies on Metaheuristics for Continuous Global Optimization Problems", PhD thesis, Kyoto University, Kyoto, Japan, June 2004 (**TES DOC**).
38. J.H. Lee, G.H. Kim and Y.S. Park, "A geometry constraint handling technique for stiffener layout optimization problem", *Journal of Sound and Vibration*, Vol. 285, Nos. 1–2, pp. 101–120, July 6, 2005.
39. Luis Federico Bertona, "Entrenamiento de Redes Neuronales basado en Algoritmos Evolutivos", Tesis de grado en Ingeniería Informática, Laboratorio de Sistemas Inteligentes, Facultad de Ingeniería, Universidad de Buenos Aires, Argentina, Noviembre de 2005 (**TES LIC**).
40. Chie Matsuo, "Optimal Seismic Design of Shell Structures using Genetic Algorithm", Masters thesis, Institute of Structural Mechanics, University of Stutgart, Germany, 2003 (**TES MAE**).
41. A.C. Zecchin, A.R. Simpson, H.R. Maier, M. Leonard, A.J. Roberts and M.J. Berrisford, "Application of two ant colony optimisation algorithms to water distribution system optimisation", *Mathematical and Computer Modelling*, Vol. 44, Nos. 5–6, pp. 451–468, September 2006.

42. A. Konak, D.W. Coit and A.E. Smith, "Multi-objective optimization using genetic algorithms: A tutorial", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 992–1007, September 2006.

43. Anders Angantyr, "Rotordynamic Optimization of Large Turbo Systems using Genetic Algorithms", PhD thesis, The Polhelm Laboratory, Division of Computer Aided Design, Lulea University of Technolog, Lulea, Sweden, March 2006 (**TES DOC**).

44. A. Amirjanov and K. Sobolev, "Fractal properties of Apollonian packing of spherical particles", *Modelling and Simulation in Materials Science and Engineering*, Vol. 14, No. 4, pp. 789–798, June 2006.

45. A.R. Hedar and M. Fukushima, "Derivative-free filter simulated annealing method for constrained continuous global optimization", *Journal of Global Optimization*, Vol. 35, No. 4, pp. 521–549, August 2006.

46. Antonin Ponsich, "Strategies d'Optimisation Mixte en Genie des Procedes. Application a la Conception d'Ateliers Discontinus", PhD thesis, Institut National Polytechnique de Toulouse, Toulouse, Francia, Diciembre 2005 (**TES DOC**).

47. Bernd Meyer, "Constraint Handling and Stochastic Ranking in ACO", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2683–2690, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.

48. Oliver Kramer, Chuan-Kang Ting and Hans Kleine Büning, "A New Mutation Operator for Evolution Strategies for Constrained Problems", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2600–2606, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.

49. Elizabeth F. Wanner, Frederico G. Guimarães, Rodney R. Saldanha, Ricardo H.C. Takahashi and Peter J. Fleming, "Constraint Quadratic Approximation Operator for Treating Equality Constraints with Genetic Algorithms", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2255–2262, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.

50. Yong Zhang, Lawrence O. Hall, Dmitry B. Goldgof and Sudeep Sarkar, "A Constrained Genetic Approach for Computing Material Property of Elastic Objects", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 341–357, June 2006.

51. A. Amirjanov, "The development of a changing range genetic algorithm", *Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 19–22, pp. 2495–2508, 2006.

52. D. Ortiz-Boyer, R. del Castillo-Gomariz, N. García-Pedrajas, and C. Hervás-Martínez, "Crossover effect over penalty methods in function optimization with constraints", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1127–1134, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

53. Yong Wang and Zixing Cai, "A Constrained Optimization Evolutionary Algorithm Based on Multiobjective Optimization Techniques", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1081–1087, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

54. H.H. Nguyen and C.W. Chan, "Applications of artificial intelligence for optimization of compressor scheduling", *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 2, pp. 113–126, March 2006.

55. P. Chootinan and A. Chen, "Constraint handling in genetic algorithms using a gradient-based repair method", *Computers & Operations Research*, Vol. 33, No. 8, pp. 2263–2281, August 2006.

56. Kenneth V. Price, Rainer M. Storn and Jouni A. Lampinen, "Differential Evolution. A Practical Approach to Global Optimization", Springer, 2005, ISBN 3-540-20950-6, página 202.

57. A. Amirjanov and K. Sobolev, "Optimal proportioning of concrete aggregates using a self-adaptive genetic algorithm", *Computers and Concrete*, Vol. 2, No. 5, pp. 411–421, October 2005.

58. M. Liu, S.A. Burns and Y.K. Wen, "Genetic algorithm based construction-conscious minimum weight design of seismic steel moment-resisting frames", *Journal of Structural Engineering–ASCE*, Vol. 132, No. 1, pp. 50–58, January 2006.

59. Gerardo Canfora, Massimiliano Di Penta, Raffaele Esposito and Maria Luisa Villani, "An Approach for QoS-aware Service Composition based on Genetic Algorithms", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 1069–1075, ACM Press, New York, USA, June 2005.

60. D.J. Barrett, M.J. Hill, L.B. Hutley, J. Beringer, J.H. Xu, G.D. Cook, J.O. Carter and R.J. Williams, "Prospects for improving savanna biophysical models by using multiple-constraints model-data assimilation methods", *Australian Journal of Botany*, Vol. 53, No. 7, pp. 689–714, 2005.

61. A. Amirjanov and K. Sobolev, "Genetic algorithm for cost optimization of modified multi-component binders", *Building and Environment*, Vol. 41, No. 2, pp. 195–203, February 2006.

62. Oliver Kramer, Chaun-Kang Ting and Hans Kleine Büning, "A Mutation Operator for Evolution Strategies to Handle Constrained Problems", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 917–918, ACM Press, New York, USA, June 2005.

63. Pei Yee Ho and Kazuyuki Shimizu, "Simple Addition of Ranking Method for Constrained Optimization in Evolutionary Algorithms" in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 889–896, Vol. 1, ACM Press, New York, USA, June 2005.

64. Jui-Yu Wu and Yun-Kung Chung, "Artificial Immune System for Solving Generalized Geometric Problems: A Preliminary Results", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 329–336, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.

65. Akira Oyama, Koji Shimoyama and Kozo Fujii, "New Constraint-Handling Method for Multi-Objective Multi-Constraint Evolutionary Optimization and Its Application to Space Plane Design", in R. Schilling, W. Haase, J. Periaux, H. Baier and G. Bugeda (editors), *Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2005)*, Munich, Germany, 2005 (*CONG INT*).

66. Tetsuyuki Takahama and Setsuko Sakai, "Constrained Optimization by Applying the α Constrained Method to the Nonlinear Simplex Method With Mutations", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 5, pp. 437–451, October 2005 (**JOUR INT**).

67. Lauren Clevenger, Lauren Ferguson and William E. Hart, "Filter-Based Evolutionary Algorithm for Constrained Optimization", *Evolutionary Computation*, Vol. 13, No. 3, pp. 329–352, Fall 2005 (**JOUR INT**).

68. S. Rajasekaran, "Optimal laminate sequence of non-prismatic thin-walled composite spatial members of generic section", *Composite Structures*, Vol. 70, No. 2, pp. 200-211, September 2005.

69. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.

70. Marcos Martinez Silvoso, "Otimização da Fase Construtiva de Estruturas de Concreto em Face Dos Efeitos da Hidratação via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Brasil, March 2003 (**TES DOC**).

71. J.M. Rogero, "A Genetic Algorithms Based Optimization Tool for the Preliminary Design of Gas Turbine Combustors", PhD thesis, School of Engineering, Cranfield University, November 2002 (**TES DOC**).

72. N.D. Lagaros, D.C. Charmpis and M. Papadrakakis, "An adaptive neural network strategy for improving the computational performance of evolutionary structural optimization", *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 30–33, pp. 3374–3393, 2005.

73. Özgür Yeniay, "Penalty Function Methods for Constrained Optimization with Genetic Algorithms", *Mathematical and Computational Applications*, Vol. 10, No. 1, pp. 45–56, 2005 (**JOUR INT**).

74. Mircea Negoita, Daniel Neagu and Vasile Palade, "Computational Intelligence: Engineering of Hybrid Systems", Springer, Berlin, 2005, ISBN 3-540-23219-2 (**LIB ING**).

75. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

76. M. Andrea Rodríguez and Mary Carmen Jarur, "A Genetic Algorithm for Searching Spatial Configurations", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 3, pp. 252–270, June 2005 (**JOUR INT**).

77. T.P. Runarsson and X. Yao, "Search biases in constrained evolutionary optimization", *IEEE Transactions on Systems, Man, and Cybernetics Part C—Applications and Reviews*, Vol. 35, No. 2, pp. 233–243, May 2005 (**JOUR INT**).

78. R. Farmani, J.A. Wright, D.A. Savic and G.A. Walters, "Self-adaptive fitness formulation for evolutionary constrained optimization of water systems", *Journal of Computing in Civil Engineering*, Vol. 19, No. 2, pp. 212–216, April 2005 (**JOUR INT**).

79. Aaron C. Zecchin, Angus R. Simpson, Holger R. Maier and John B. Nixon, "Parametric Study for an Ant Algorithm Applied to Water Distribution System Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 9, No. 2, pp. 175–191, April 2005 (**JOUR INT**).

80. M.G. Sahab, A.F. Ashour and V.V. Toropov, "A hybrid genetic algorithm for reinforced concrete flat slab buildings", *Computers & Structures*, Vol. 83, Nos. 8–9, pp. 551–559, March 2005 (**JOUR INT**).

81. A. Amirjanov, "A changing range genetic algorithm", *International Journal for Numerical Methods in Engineering*, Vol. 61, No. 15, pp. 2660–2674, December 21, 2004 (**JOUR INT**).

82. Q.S. Ren, J. Zeng and F.H. Qi, "History information based optimization of additively decomposed function with constraints", *Computational and Information Science, Proceedings*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3314, pp. 359–364, 2004 (**CONG INT**).

83. H. Schmidt and G. Thierauf, "A combined heuristic optimization technique", *Advances in Engineering Software*, Vol. 36, No. 1, pp. 11–19, January 2005 (**JOUR INT**).

84. Xavier Bonnaire and María-Cristina Riff, "Adapting Evolutionary Parameters by Dynamic Filtering for Operators Inheritance Strategy", in Christian Lemaître, Carlos A. Reyes and Jesús A. González (editors), *Advances in Artificial Intelligence—IBERAMIA 2004*, Springer, Lecture Notes in Artificial Intelligence Vol. 3315, pp. 225–234, Puebla, México, November 2004 (**CONG INT**).

85. R.F. Coelho and P. Bouillard, "A multicriteria evolutionary algorithm for mechanical design optimization with expert rules", *International Journal for Numerical Methods in Engineering*, Vol. 62, No. 4, pp. 516–536, January 28, 2005 (**JOUR INT**).

86. Steven Orla Kimbrough, Ming Lu, and David Harlan Wood, "Exploring the Evolutionary Details of a Feasible-Infeasible Two-Population GA", in Xin Yao et al. (editors), *Parallel Problem Solving from Nature - PPSN VIII*, Springer-Verlag, Lecture Notes in Computer Science, Vol. 3242, pp. 292–301, September 2004 (**CONG INT**).

87. R. Filomeno Coelho, PH. Bouillard and H. Bersini, "PAMUC: A New Method to Handle Constraints and Multiobjectivity in Evolutionary Algorithms", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 91–100, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).

88. Anders Angantyr and Jan Olov Aidanpää, "A Pareto-Based Genetic Algorithm Search Approach to Handle Damped Natural Frequency Constraints in Turbo Generator Rotor System Design", *Journal of Engineering for Gas Turbines and Power*, Vol. 126, No. 3, pp. 619–625, July 2004 (**JOUR INT**).

89. B. Lin and D.C. Miller, "Tabu search algorithm for chemical process optimization", *Computers & Chemical Engineering*, Vol. 28, No. 11, pp. 2287–2306, October 15, 2004 (**JOUR INT**).

90. B. Meyer and A. Ernst, "Integrating ACO and constraint propagation", in *Proceedings of Ant Colony Optimization and Swarm Intelligence*, Springer, Lecture Notes in Computer Science, Vol. 3172, pp. 166–177, 2004 (**CONG INT**).

91. Xiao-Feng Xie, Wen-Jun Zhang and De-Chun Bi, "Handling Equality Constraints by Adaptive Relaxing Rule for Swarm Algorithms", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 2012–2016, Portland, Oregon, USA, June 2004 (**CONG INT**).

92. P.A. Simionescu, D.G. Beale and G.V. Dozier, "Constrained Optimization Problem Solving Using Estimation of Distribution Algorithms", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 296–302, Portland, Oregon, USA, June 2004 (**CONG INT**).

93. Sangameswar Venkatraman and Gary G. Yen, "A Simple Elitist Genetic Algorithm for Constrained Optimization" in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 288–295, Portland, Oregon, USA, June 2004 (**CONG INT**).

94. Rajan Filomeno Coelho and Philippe Bouillard, "PAMUC II for multicriteria optimization of mechanical designs with expert rules", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 17–22, Portland, Oregon, USA, June 2004 (**CONG INT**).

95. Talib Hussain, David Montana and Gordon Vidaver, "Evolution-Based Deliberative Planning for Cooperating Unmanned Ground Vehicles in a Dynamic Environment", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and*

Evolutionary Computation Conference. Part II, Springer-Verlag, Lecture Notes in Computer Science Vol. 3103, pp. 1017–1029, Seattle, Washington, USA, June 2004 (**CONG INT**).

96. Lauren M. Clevenger and William E. Hart, "Convergence Examples of a Filter-Based Evolutionary Algorithm", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 666–677, Seattle, Washington, USA, June 2004 (**CONG INT**).
97. Francis Dermot Sweeney, "New Sampling Distributions for Evolution Algorithms", PhD thesis, Department of Aeronautics and Astronautics, Stanford University, August 2003 (**TES DOC**).
98. Yann Collette and Patrick Siarry, "Multiobjective Optimization. Principles and Case Studies", Springer, Berlin, 2003, ISBN 3-540-40182-2 (**LIB ING**).
99. S. He, E. Prempain and Q.H. Wu, "An improved particle swarm optimizer for mechanical design optimization problems", *Engineering Optimization*, Vol. 36, No. 5, pp. 585–605, October 2004 (**JOUR INT**).
100. Manolis Papadrakakis and Nikos D. Lagaros, "Soft computing methodologies for structural optimization", *Applied Soft Computing*, Vol. 3, No. 3, pp. 283–300, 2003 (**JOUR INT**).
101. R. Ganguli, "Survey of recent developments in rotorcraft design optimization", *Journal of Aircraft*, Vol. 41, No. 3, pp. 493–510 May-June 2004 (**JOUR INT**).
102. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).
103. Min Liu, "Development of Multiobjective Optimization Procedures for Seismic Design of Steel Moment Frame Structures", PhD thesis, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES DOC**).
104. T. Wu and P. O'Grady, "A methodology for improving the design of a supply chain", *International Journal of Computer Integrated Manufacturing*, Vol. 17, No. 4, pp. 281–293, June 2004 (**JOUR INT**).
105. A.G. Bakirtzis, P.N. Biskas, C.E. Zoumas and V. Petridis, "Closure on "Optimal power flow by enhanced genetic algorithm"", *IEEE Transactions on Power Systems*, Vol. 18, No. 3, pp. 1219–1220, August 2003 (**JOUR INT**).
106. L. Du, J. Bigham and L. Cuthbert, "Towards intelligent geographic load balancing for mobile cellular networks", *IEEE Transactions on Systems, Man and Cybernetics Part C—Applications and Reviews*, Vol. 33, No. 4, pp. 480–491, November 2003 (**JOUR INT**).

107. S. Rajasekaran, V.S. Mohan and O. Khamis, "The optimisation of space structures using evolution strategies with functional networks", *Engineering with Computers*, Vol. 20, No. 1, pp. 75–87, March 2004 (**JOUR INT**).

108. Anders Angantyr, "Constrained Optimization of Rotor-Bearing Systems by Evolutionary Algorithms", Licenciate Thesis, Department of Applied Physics and Mechanical Engineering, Division of Computer Aided Design, Luleå University of Technology, January 2004 (**TES LIC**).

109. Lin Du and John Bigham, "Constrained Coverage Optimisation for Mobile Cellular Networks", in Günther Raidl et al. (editors), *Applications of Evolutionary Computing. Evoworkshops 2003: EvoBIO, EvoCOP, EvoIASP, EvoMUSART, EvoROB, and EvoSTIM*, pp. 199–210, Springer, Lecture Notes in Computer Science Vol. 2611, Essex, UK, April 2003 (**CONG INT**).

110. Robin Charles Purshouse, "On the Evolutionary Optimisation of Many Objectives", PhD thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, September 2003 (**TES DOC**).

111. Hisashi Shimosaka, Tomoyuki Hiroyasu and Mitsunori Miki, "Comparison of Pulling Back and Penalty Methods for Constraints in DPMBGA", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1941–1948, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

112. E.M.R. Fairbairn, M.M. Silvoso, R.D. Toledo, J.L.D. Alves and N.F.F. Ebecken, "Optimization of mass concrete construction using genetic algorithms", *Computers & Structures*, Vol. 82, Nos. 2–3, pp. 281–299, January 2004 (**JOUR INT**).

113. Wen Jhun Zhang and Xiao-Feng Xie, "DEPSO: hybrid particle swarm with differential evolution operator", in *IEEE International Conference on Systems, Man & Cybernetics (SMCC)*, pp. 3816–3821, Vol. 4, IEEE, Washington DC, USA, October 2003 (**CONG INT**).

114. Anders Angantyr, Johan Andersson and Jan-Olov Aidanpaa, "Constrained Optimization based on a Multiobjective Evolutionary Algorithm", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1560–1567, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

115. Thomas Philip Runarsson and Xin Yao, "Evolutionary Search and Constraint Violations", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1414–1419, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**)

116. Zhenguo Tu and Yong Lu, "Global optimization of continuous problems using Stochastic Genetic Algorithm, in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1230–1236, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**)

117. A. Kanarachos, D. Koulocheris and H. Vrazopoulos, "Evolutionary algorithms with deterministic mutation operators used for the optimization of the trajectory of a four-bar mechanism", *Mathematics and Computers in Simulation*, Vol. 63, No. 6, pp. 483–492, November 24, 2003 (**JOUR INT**).

118. H. Schmidt and G. Thierauf, "A combined heuristic optimization technique", in B. Topping and Z. Bittnar (Eds), *Proceedings of The Sixth International Conference on Computational Structures Technology*, Saxe-Coburg Publications, Prague, Czech Republic, September 2002 (**CONG INT**).

119. Mircea Gh. Negoita and Dragos Arotaritei, "A GA with Variable Length Chromosomes for Optimization Objectives of Fuzzy Recurrent NN", in Alwyn Barry (editor), *2003 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 208–213, AAAI, Chicago, Illinois, USA, July 2003 (**CONG INT**).

120. D.S. Juang, Y.T. Wu and W.T. Chang, "Optimum design of truss structures using discrete Lagrangian method", *Journal of the Chinese Institute of Engineers*, Vol. 26, No. 5, pp. 635–646, September 2003 (**JOUR INT**).

121. K. Miettinen, M.M. Makela and J. Toivanen, "Numerical comparison of some penalty-based constraint handling techniques in genetic algorithms", *Journal of Global Optimization*, Volume 27, No. 4, pp. 427–446, December 2003 (**JOUR INT**).

122. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).

123. Steven Orla Kimbrough, Ming Lu, David Harlan Wood, and D.J. Wu, "Exploring a Two-Population Genetic Algorithm", in Erick Cant-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 1148–1159, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).

124. Ricardo del Angel Pérez Flores y Arturo Hernández Aguirre, "Uso de Algoritmos Genéticos para Detección de Vectores de Soporte en el Entrenamiento de Máquinas de Soporte Vectorial', en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 295–307, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

125. P.M. Pawar and R. Ganguli, "Genetic Fuzzy System for Damage Detection in Beams and Helicopter Rotor Blades", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 16–18, pp. 2031–2057, 2003 (**JOUR INT**).

126. Ricardo Paramont Hernández García y Ángel Fernando Kuri Morales, "Using the EGA, a Non-traditional GA, and Deterministic Ranking for Optimization of Constrained Functions", en S. Botello, A. Hernández y C.

Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 13–25, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

127. Aditya Utturwar, Srirarn Rallabhandi, Daniel DeLaurentis, and Dimitri Mavris, "A Bi-Level optimization approach for technology selection",en *9th AIAA/ISSMO Symposium on Multidisciplinary Analysis and Optimization*, paper AIAA-2002-5426, Atlanta, GA, September 4-6, 2002 (**CONG INT**).

128. Dragos Arotaritei and Mircea Gh. Negoita, "Optimization of Recurrent NN by GA with Variable Length Genotype", in Bob McKay and John S. Slaney (eds), *AI 2002: Advances in Artificial Intelligence, 15th Australian Joint Conference on Artificial Intelligence and Applications*, Springer, Lecture Notes in Computer Science, Vol. 2557, pp. 681–692, 2002 (**CONG INT**).

129. Eduardo Fernández and Jorge Navarro, "A Genetic Search for Exploiting a Fuzzy Preference Model of Portfolio Problems with Public Projects", *Annals of Operations Research*, Vol. 117, Nos. 1–4, pp. 191–213, November 2002 (**JOUR INT**).

130. Jin Wu, "Quality Assisted Multiobjective and Multidisciplinary Genetic Algorithms", PhD Thesis, Department of Mechanical Engineering, University of Maryland at College Park, College Park, Maryland, EUA, 2001 (**TES DOC**).

131. A. Kurpati, S. Azarm and J. Wu, "Constraint handling improvements for multiobjective genetic algorithms", *Structural and Multidisciplinary Optimization*, Vol. 23, No. 3, pp. 204–213, April 2002 (**JOUR INT**).

132. Marco Farina, "Cost-effective Evolutionary Strategies for Pareto Optimal Front Approximation in Multiobjective Shape Design Optimization of Electromagnetic Devices", PhD Thesis, Department of Electrical Engineering, University of Pavia, Italy, 2001 (**TES DOC**).

133. Marco Farina, Alessandro Bramanti and Paolo Di Barba, "A GRS Method for Pareto-Optimal Front Identification in Electromagnetic Synthesis", *IEE Proceedings—Science, Measurement and Technology*, Vol. 149, No. 5, pp. 207–213, September 2002 (**JOUR INT**).

134. Steven O. Kimbrough, David Harlan Wood, D.J. Wu and Ming Lu, "Exploring a Two-Market Genetic Algorithm", in E.Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A.C. Schultz, J. F. Miller, E. Burke, and N. Jonoska (editors) *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002)*, pp. 415–422, Morgan Kaufmann Publishers, San Francisco, California, July 2002 (**CONG INT**).

135. B. Fazlollahi and R. Vahidov, "A Method for Generation of Alternatives by Decision Support Systems", *Journal of Management Information Systems*, Vol. 18, No. 2, pp. 229–250, Fall 2001 (**JOUR INT**).

136. Juan Frausto and Rafael Rivera, "A simplex Genetic Method for Solving the Klee Minty Cube", *WSEAS Transactions on Systems*, Vol. 2, No. 1, pp. 232–237.ISSN 1109-2777, April 2002 (**JOUR INT**).

137. Thomas Beielstein, Jan Dienstuhl, Christian Feist and Marc Pompl, "Circuit Design Using Evolutionary Algorithms", *Congress on Evolutionary Computation (CEC'2002)*, Volume 2, pp. 1904–1909, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).

138. Angel Fernando Kuri-Morales & Jesús Gutiérrez-García, "Penalty Function Methods for Constrained Optimization with Genetic Algorithms: A Statistical Analysis", in Carlos A. Coello Coello, Alvaro de Albornoz, Luis Enrique Sucar & Osvaldo Cairó Battistutti (eds), *MICAI 2002: Advances in Artificial Intelligence*, pp. 108–117, Springer-Verlag, Berlin, Lecture Notes in Artificial Intelligence, Vol. 2313, Abril 2002. (**CONG INT**)

139. Juan Jesús Gutiérrez García, "Métodos de Optimización con Restricciones usando Algoritmos Genéticos y Funciones de Penalización. Análisis Comparativo", Tesis de Maestría, Universidad Nacional Autónoma de México, Julio de 2001. (**TES MAE**)

140. K.C. Tan, T.H. Lee, E.F. Khor, C.M. Heng and D. Khoo, "Nonlinear Constraint Handling Techniques via Angular Transformation, in Lee Spector, Erik Goodman, Annie Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 655–662, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

141. K.C. Tan, T.H. Lee, D. Khoo, and E.F. Khor, "Constrained Evolutionary Exploration via Genetic Structure of Packet Distribution", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 1, pp. 693–703, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

Congresos Internacionales

- Hernández Aguirre, Arturo; Botello Rionda, Salvador and Coello Coello, Carlos A. "PASSSS: An Implementation of a Novel Diversity Strategy for Handling Constraints", in *2004 Congress on Evolutionary Computation* (CEC'2004), pp. 403–410, Vol. 1, IEEE, Portland, Oregon, June 2004.

    1. Jingxuan Wei and Yuping Wang, "A Novel Multi-objective PSO Algorithm for Constrained Optimization Problems", in T.-D. Wang et al. (editors), *Simulated Evolution and Learning (SEAL 2006)*, pp. 174–180, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.

- Hernández Aguirre, Arturo and Coello Coello, Carlos A., "Mutual Information-based Fitness Functions for Evolutionary Circuit Synthesis", in *2004 Congress*

on Evolutionary Computation (CEC'2004), pp. 1309–1316, Vol. 2, IEEE, Portland, Oregon, June 2004.

1. Stuart W. Card and Chilukuri K. Mohan, "Information Theoretic Indicators of Fitness, Relevant Diversity & Pairing Potential in Genetic Programming", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2545–2552, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.

- Hernández Aguirre, Arturo; Zebulum, Ricardo S. and Coello Coello, Carlos A., "Evolutionary Multiobjective Design targeting a Field Programmable Transistor Array", in Ricardo S. Zebulum, David Gwaltney, Gregory Hornby, Didier Keymeulen, Jason Lohn and Adrian Stoica (editors), *Proceedings of the 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 199–205, IEEE Computer Society, Los Alamitos, California, June 2004.

  1. Martin Albrecht Trefzer, "Evolution of Transistor Circuits", PhD thesis, Ruperto-Carola-University of Heidelberg, Germany, 2006 (**TES DOC**).
  2. Martin Trefzer, Jörg Langeheine, Karlheinz Meier and Johannes Schemmel, "Operational Amplifiers: An Example for Multi-objective Optimization on an Analog Evolvable Hardware Platform", in J. Manuel Moreno, Jordi Madrenas and Jordi Cosp (editors), *Evolvable Systems: From Biology to Hardware, 6th International Conference, ICES 2005*, pp. 86–97, Springer, Lecture Notes in Computer Science Vol. 3637, Sitges, Spain, September 2005.

- Nareli Cruz Cortés, Daniel Trejo-Pérez and Carlos A. Coello Coello, "Handling Constraints in Global Optimization using an Artificial Immune System", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 234–247, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005.

  1. Andrew Secker, "Artificial Immune Systems for Web Content Mining: Focusing on the Discovery of Interesting Information", PhD thesis, The University of Kent, June 2006 (**TES DOC**).

- Ricardo Landa Becerra and Carlos A. Coello Coello, "A Cultural Algorithm with Differential Evolution to Solve Constrained Optimization Problems", in Christian Lemaître, Carlos A. Reyes and Jesús A. González (editors), *Advances in Artificial Intelligence - IBERAMIA 2004*, pp. 881–890, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 3315, Puebla, México, November 2004.

  1. Fu-zhuo Huang, Ling Wang and Qie He, "An effective co-evolutionary differential evolution for constrained optimization", *Applied Mathematics and Computation*, Vol. 186, No. 1, pp. 340–356, March 1, 2007.

- Efrén Mezura-Montes, Jesús Velázquez-Reyes and Carlos A. Coello Coello, "Promising Infeasibility and Multiple Offspring Incorporated to Differential Evolution for Constrained Optimization", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 225–232, Vol. 1, ACM Press, Washington, DC, USA, June 2005, ISBN 1-59593-010-8.

    1. Pei Yee Ho and Kazuyuki Shimizu, "Evolutionary constrained optimization using an addition of ranking method and a percentage-based tolerance value adjustment scheme", *Information Sciences*, Vol. 177, No. 14, pp. 2985–3004, July 15, 2007.
    2. Min Zhang, Huantong Geng, Wenjian Luo, Linfeng Huang and Xufa Wang, "A hybrid of differential evolution and genetic algorithm for constrained multiobjective optimization problems", *Simulated Evolution and Learning, Proceedings*, pp. 318–327, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.

- Mezura Montes, Efrén, Coello Coello, Carlos A. and Tun-Morales, Edy I., "Simple Feasibility Rules and Differential Evolution for Constrained Optimization", in Raúl Monroy, Gustavo Arroyo-Figueroa, Luis Enrique Sucar and Humberto Sossa (eds), *Proceedings of the Third Mexican International Conference on Artificial Intelligence (MICAI'2004)*, pp. 707–716, Springer Verlag, Lecture Notes in Artificial Intelligence Vol. 2972, April 2004.

    1. Jaime Alvarez-Gallegos, Carlos Alberto Cruz Villar and Edgar Alfredo Portilla Flores, "Evolutionary Dynamic Optimization of a Continuously Variable Transmission for Mechanical Efficiency Maximization", in Alexander Gelbukh, Álvaro de Albornoz and Hugo Terashima-Marín (editors), *MICAI 2005: Advances in Artificial Intelligence*, Springer, pp. 1093–1102, Lecture Notes in Artificial Intelligence Vol. 3789, Monterrey, México, November 2005.

- Mezura-Montes, Efrén and Coello Coello, Carlos A., "An Improved Diversity Mechanism for Solving Constrained Optimization Problems using a Multimembered Evolution Strategy", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 700–712, Seattle, Washington, USA, June 2004.

    1. Mark Collins, "An Algorithm for Evolving Protocol Constraints", PhD thesis, Artificial Intelligence Applications Institute, School of Informatics, University of Edinburgh, Scotland, 2006 (**TES DOC**).
    2. Yong Zhang, Lawrence O. Hall, Dmitry B. Goldgof and Sudeep Sarkar, "A Constrained Genetic Approach for Computing Material Property of Elastic Objects", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 341–357, June 2006.

3. Pei Yee Ho and Kazuyuki Shimizu, "Simple Addition of Ranking Method for Constrained Optimization in Evolutionary Algorithm", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 889–896, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.

- Toscano Pulido, Gregorio and Coello Coello, Carlos A. "The Micro Genetic Algorithm 2: Towards On-Line Adaptation in Evolutionary Multiobjective Optimization", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (Eds), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 252–266, Springer, Lecture Notes in Computer Science, Vol. 2632, Faro, Portugal, April 2003.

    1. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
    2. E.K. Burke, J.D. Landa Silva and E. Soubeiga, "Hyperheuristic Approaches for Multiobjective Optimisation", in *Proceedings of the 5th Metaheuristics International Conference (MIC 2003)*, pp. 11.1–11.6, Kyoto, Japan, August 2003 (**CONG INT**).
    3. Francesco di Pierro, "Many-Objective Evolutionary Algorithms and Applications to Water Resources Engineering", PhD thesis, School of Engineering, Computer Science and Mathematics, University of Exeter, UK, August 2006 (**TES DOC**).
    4. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).
    5. Daniel Salazar, Néstor Carrasquero and Blas Galván, "Exploiting Comparative Studies Using Criteria: Generating Knowledge from an Analyst's Perspective", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 221–234, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

- Mario Alberto Villalobos-Arias, Gregorio Toscano Pulido and Carlos A. Coello Coello, "A Proposal to Use Stripes to Maintain Diversity in a Multi-Objective Particle Swarm Optimizer", in *2005 IEEE Swarm Intelligence Symposium (SIS'05)*, pp. 22–29, IEEE Press, Pasadena, California, June 2005.

    1. Nissrine Krami, Mohamed A. El-Sharkawi and Mohamed Akherraz, "Multi Objective Particle Swarm Optimization Technique for Reactive Power Planning", in *2006 Swarm Intelligence Symposium (SIS'06)*, pp. 170–174, IEEE Press, Indianapolis, Indiana, USA, May 2006 (**CONG INT**).

- Mario Villalobos-Arias, Carlos A. Coello Coello and Onésimo Hernández-Lerma, "Asymptotic Convergence of some Metaheuristics used for Multiobjetive Optimization", in A.H. Wright et al. (editors), *Foundations of Genetic Algorithms (FOGA 2005)*, pp. 95–111, Springer-Verlag, Lecture Notes in Computer Science Vol. 3469, Aizu, Japan, 2005.

    1. Thomas Weise and Kurt Geihs, "DGPF–An Adaptable Framework for Distributed Multi-Objective Search Algorithms Applied to the Genetic Programming of Sensor Networks", in Bogdan Filipič and Jurij Šilc (editors), *Bioinspired Optimization Methods and their Applications*, pp. 157–166, Jožef Stefan Institute, October 2006.

- Mario Villalobos-Arias; Carlos A. Coello Coello, and Onésimo Hernández-Lerma, "Convergence Analysis of a Multiobjective Artificial Immune System Algorithm", in Giuseppe Nicosia, Vincenzo Cutello, Peter J. Bentley and Jon Timmis (editors), *Artificial Immune Systems. Proceedings of the Third International Conference (ICARIS'2004)*, pp. 226–235, Springer-Verlag, Lecture Notes in Computer Science Vol. 3239, Catania, Sicily, Italy, September 2004.

    1. J. Timmis, "Challenges for artificial immune systems", *Neural Nets*, Springer-Verlag, pp. 355–367, Lecture Notes in Computer Science Vol. 3931, 2006.
    2. Andrew B. Watkins, "Exploiting Immunological Metaphors in the Development of Serial, Parallel, and Distributed Learning Algorithms", PhD thesis, The University of Kent, March 2005. (**TES DOC**).
    3. Emma Hart and Jonathan Timmis, "Application Areas of AIS: The Past, The Present and The Future", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 483–497, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005.
    4. Edward Clark, Andrew Hone and Jon Timmis, "A Markov Chain Model of the B-Cell Algorithm", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 318–330, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005.
    5. Susan Stepney, Robert E. Smith, Jonathan Timmis, Andy M. Tyrrell, Mark J. Neal and Andrew N.W. Hone, "Conceptual Framework for Artificial Immune Systems", *International Journal of Unconventional Computing*, Vol. 1, pp. 315–338, 2005 (**JOUR INT**).

- Gregorio Toscano-Pulido and Carlos A. Coello Coello, "Using Clustering Techniques to Improve the Performance of a Multi-Objective Particle Swarm Optimizer", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 225–237, Seattle, Washington, USA, June 2004

1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
2. Wen-Fung Leong and Gary G. Yen, "Dynamic Population size in PSO-based Multiobjective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6182–6189, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
3. Mohammed El-Abd and Mohamed Kamel, "Information Exchange in Multiple Cooperating Swarms", in *2005 IEEE Swarm Intelligence Symposium (SIS'05)*, pp. 138–142, IEEE Press, Pasadena, California, June 2005.
4. V.L. Huang, P.N. Suganthan and J.J. Liang, "Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems", *International Journal of Intelligent Systems*, Vol. 21, No. 2, pp. 209–226, February 2006.
5. S. Janson and D. Merkle, "A new multi-objective particle swarm optimization algorithm using clustering applied to automated docking", *Hybrid Metaheuristics, Proceedings*, Springer, Lecture Notes in Computer Science Vol. 3636, pp. 128–142, 2005.
6. Mohammed El-Abd and Mohamed Kamel, "Factors Governing The Behavior of Multiple Cooperating Swarms", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 269–270, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

- Cruz Cortés, Nareli and Coello Coello, Carlos A., "Multiobjective Optimization using the Clonal Selection Principle", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation Conference—GECCO'2003. Proceedings*, Part I, Lecture Notes in Computer Science Vol. 2723, pp. 158–170, Springer, Chicago, USA, July 2003.

  1. Jun Chen and Mahdi Mahfouf, "A population adaptive based immune algorithm for solving multi-objective optimization problems", in Hughes Bersini and Jorge Carneiro (editors), *Artificial Immune Systems, 5th International Conference, ICARIS 2006, Proceedings*, pp. 280–293, Springer-Verlag, Lecture Notes in Computer Science Vol. 4163, Oeiras, Portugal, September 2006.

- Coello Coello, Carlos A.; Cortés Rivera, Daniel and Cruz Cortés, Nareli, "Use of an Artificial Immune System for Job Shop Scheduling", en Jon Timmis, Peter Bentley and Emma Hart (editors), *Second International Conference on Artificial Immune Systems (ICARIS'2003)*, pp. 1–10, Edinburgh, Scotland, Lecture Notes in Computer Science, Vol. 2787, Springer-Verlag, Septiembre de 2003.

  1. Guan-Chun Luh and Shih-Wei Lee, "A Bacterial Evolutionary Algorithm for the Job Shop Scheduling Problem", *Journal of the Chinese Institute of Industrial Engineers*, Vol. 23, No. 3, pp. 185–191, 2006 (**JOUR INT**).

2. Leandro Nunes de Castro, "Fundamentals of Natural Computing. Basic Concepts, Algorithms, and Applications", Chapman & Hall/CRC, Boca Raton, Florida, USA, 2006, ISBN 1-58488-643-9 (pág. 288).
3. H.Y.K. Lau and V.W.K. Wong, "An immunity-based distributed multiarvent-control framework", *IEEE Transactions on Systems, Man, and Cybernetics Part A—Systems and Humans*, Vol. 36, No. 1, pp. 91–108, January 2006.
4. Steve Cayzer, Jim Smith, James A.R. Marshall and Tim Kovacs, "What Have Gene Libraries Done for AIS?", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 86–99, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005.
5. H.Y. Lau, E.Y.C. Wong, "An AIS-based Dynamic Routing (AISDR) framework", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 56–71, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005.

- **Coello Coello, Carlos A. & Mezura Montes, Efrén, "Use of Dominance-Based Tournament Selection to Handle Constraints in Genetic Algorithms", en Cihan H. Dagli, Anna L. Buczak, Joydeep Ghosh, Mark J. Embrechts, Okan Erson & Stephen Kercel (eds.),** ***Intelligent Engineering Systems through Artificial Neural Networks*** **(ANNIE'2001), ASME Press, Vol. 11, pp. 177–182, St. Louis Missouri, November 2001.**

  1. S. He, E. Prempain and Q.H. Wu, "An improved particle swarm optimizer for mechanical design optimization problems", *Engineering Optimization*, Vol. 36, No. 5, pp. 585–605, October 2004 (**JOUR INT**).

- Coello Coello, Carlos A.; Alba, Enrique; Luque, Gabriel and Hernández Aguirre, Arturo, "Comparing Different Serial and Parallel Heuristics to Design Combinational Logic Circuits", en Jason Lohn, Ricardo Zebulum, James Steincamp, Didier Keymeulen, Adrian Stoica, and Michael I. Ferguson (editors), *Proceedings of the 2003 NASA/DoD Workshop on Evolvable Hardware*, pp. 3–12, IEEE Computer Society Press, Los Alamitos, California, USA, July 2003.

  1. Mihai Oltean, "Solving Even-Parity Problems using Traceless Genetic Programming", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1813–1819, Portland, Oregon, USA, June 2004 (**CONG INT**).
  2. Mihai Oltean and Crina Grosan, "Evolving Digital Circuits using Multi Expression Programming", in Ricardo S. Zebulum, David Gwaltney, Gregory Hornby, Didier Keymeulen, Jason Lohn and Adrian Stoica (editors), *Proceedings of the 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 87–90, IEEE Computer Society, Los Alamitos, California, June 2004 (**CONG INT**).

- **Coello Coello, Carlos A. & Mezura Montes, Efrén, "Handling Constraints in Genetic Algorithms using Dominance-Based Tournaments", en Ian C. Parmee (editor), *Adaptive Computing in Design and Manufacture V*, Springer, London, pp. 273–284, April 2002.**

    1. S. Favuzza, M.G. Ippolito and E.R. Sanseverino, "Crowded comparison operators for constraints handling in NSGA-II for optimal design of the compensation system in electrical distribution networks", *Advanced Engineering Informatics*, Vol. 20, No. 2, pp. 201–211, April 2006.
    2. S.Y. Wang, K. Tai and M.Y. Wang, "An enhanced genetic algorithm for structural topology optimization", *International Journal for Numerical Methods in Engineering*, Vol. 65, No. 1, pp. 18–44, January 1, 2006.
    3. S.Y. Wang and K. Tai, "Structural topology design optimization using Genetic Algorithms with a bit-array representation", *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 36–38, pp. 3748–3770, 2005.
    4. Arturo Hernández Aguirre and Salvador Botello Rionda, "Evolutionary Multi-Objective Optimization of Trusses", in Carlos A. Coello Coello and Gary B. Lamont (editors), *Applications of Multi-Objective Evolutionary Algorithms*, pp. 201–226, World Scientific, Singapore, 2004 (**CAP LIB**).
    5. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).
    6. Z.Y. Wu and T. Walski, "Self-adaptive penalty approach compared with other constraint-handling techniques for pipeline optimization", *Journal of Water Resources Planning and Management–ASCE*, Vol. 131, No. 3, pp. 181–192, May-June 2005 (**JOUR INT**).
    7. S.Y. Wang and K. Tai, "Graph representation for structural topology optimization using genetic algorithms", *Computers & Structures*, Vol. 82, Nos. 20–21, pp. 1609–1622, August 2004 (**JOUR INT**).
    8. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

- **Coello Coello, Carlos A. and Reyes Sierra, Margarita, "A Coevolutionary Multi-Objective Evolutionary Algorithm", in *Proceedings of 2003 Congress on Evolutionary Computation (CEC'2003)*, Vol. 1, pp. 482–489, IEEE Press, Canberra, Australia, December, 2003.**

    1. Mark P. Kleeman and Gary B. Lamont, "Coevolutionary Multi-Objective EAs: The Next Frontier?", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6190–6199, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

2. Feng Xue, "Multi-Objective Differential Evolution: Theory and Applications", PhD thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2004.
3. Antony W. Iorio and Xiaodong Li, "A Cooperative Coevolutionary Multiobjective Algorithm Using Non-dominated Sorting", in Kalyanmoy Deb et al.(editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference*, Springer, Lecture Notes in Computer Science Vol. 3102, pp. 537–548, Seattle, Washington, USA, June 2004 (**CONG INT**).

- Coello Coello, Carlos A. and Reyes Sierra, Margarita, "A Study of the Parallelization of a Coevolutionary Multi-Objective Evolutionary Algorithm", in Raúl Monroy, Gustavo Arroyo-Figueroa, Luis Enrique Sucar and Humberto Sossa (eds), *Proceedings of the Third Mexican International Conference on Artificial Intelligence (MICAI'2004)*, pp. 688–697, Springer Verlag, Lecture Notes in Artificial Intelligence Vol. 2972, April 2004.

  1. Zhuhong Zhang, "Constrained multiobjective optimization immune algorithm: Convergence and application", *Computers & Mathematics with Applications*, Vol. 52, No. 5, pp. 791–808, September 2006.
  2. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
  3. Francisco Luna, Antonio J. Nebro and Enrique Alba, "Parallel Evolutionary Multiobjective Optimization", in N. Nedjah, E. Alba and L. de Macedo Mourelle (editors), *Parallel Evolutionary Computations*, pp. 33–56, Springer, Berlin Heidelberg, 2006.
  4. A.J. Nebro, F. Luna, E.-G. Talbi and E. Alba, "Parallel Multiobjective Optimization", in Enrique Alba (editor), *Parallel Metaheuristics*, pp. 371–394, Wiley-Interscience, New Jersey, USA, 2005, ISBN 13-978-0-471-67806-9 (**CAP LIB**).

- **Margarita Reyes Sierra and Carlos A. Coello Coello, "Improving PSO-Based Multi-objective Optimization using Crowding, Mutation and ϵ-Dominance", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (Eds.), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 505–519, Springer-Verlag, Lecture Notes in Computer Science Vol. 3410, Marzo de 2005.**

  1. Wen-Fung Leong and Gary G. Yen, "Dynamic Population size in PSO-based Multiobjective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6182–6189, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

2. Saku Kukkonen and Kalyanmoy Deb, "Improved Pruning of Non-Dominated Solutions Based on Crowding Distance for Bi-Objective Optimization Problems", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3995–4002, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
3. Y.F. Niu and L.C. Shen, "Multi-resolution image fusion using AMOPSO-II", *Intelligent Computing in Signal Processing and Pattern Recognition*, Springer-Verlag, pp. 343–352, Lecture Notes in Control and Information Sciences Vol. 345, 2006.

- Carlos A. Coello Coello and Ricadro Landa Becerra; "Evolutionary Multiobjective Optimization using a Cultural Algorithm", *2003 IEEE Swarm Intelligence Symposium*, pp. 6–13, IEEE Service Center, Indianapolis, Indiana, USA, April 2003.

    1. K. Atashkari, N. Nariman-Zadeh, M. Golcu, A. Khalkhali and A. Jamali, "Modelling and multi-objective optimization of a variable valve-timing spark-ignition engine using polynomial neural networks and evolutionary algorithms", *Energy Conversion and Management*, Vol. 48, No. 3, pp. 1029–1041, March 2007.
    2. M. Ali-Tavoli, N. Nariman-Zadeh, A. Khakhali and M. Mehran, "Multi-objective optimization of abrasive flow machining processes using polynomial neural networks and genetic algorithms", *Machining Science and Technology*, Vol. 10, No. 4, pp. 491–510, October-December 2006.
    3. Dara Curran, "An Empirical Analysis of Cultural Learning: Examining fitness, diversity and changing environments in populations of game-playing neural network agents", PhD thesis, The Department of Information Technology of the National University of Ireland, Galway, May 2006 (**TES DOC**).
    4. I. Karen, A.R. Yildiz, N. Kaya, N. Öztürk and F. Öztürk, "Hybrid approach for genetic algorithm and Taguchi's method based design optimization in the automotive industry", *International Journal of Production Research*, Vol. 44, No. 22, pp. 4897–4914, November 15, 2006.
    5. Damir Žarco, Drago Ban and Ratko Klarić, "Finite Element Approach to Calculation of Parameters of an Interior Permanent Magnet Motor", *Automatika*, Vol. 46, Nos. 3–4, pp. 113–122, 2005, ISSN 0005-1144.
    6. N. Nariman-Zadeh, A. Darvizeh and A. Jamali, "Pareto optimization of energy absorption of square aluminium columns using multi-objective genetic algorithms", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 2, pp. 213–224, February 2006.
    7. K. Atashkari, N. Nariman-Zadeh, A. Pilechi, A. Jamali and X. Yao, "Thermodynamic Pareto optimization of turbojet engines using multi-objective genetic algorithms", *International Journal of Thermal Sciences*, Vol. 44, No. 11, pp. 1061–1071, November 2005.

8. N. Nariman-Zadeh, K. Atashkari, A. Jamali, A. Pilechi and X. Yao, "Inverse modelling of multi-objective thermodynamically optimized turbojet engines using GMDH-type neural networks and evolutionary algorithms", *Engineering Optimization*, Vol. 37, No. 5, pp. 437–462, July 2005.
9. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).
10. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).

- **Coello Coello, Carlos A. & Cruz Cortés, Nareli, "A Parallel Implementation of an Artificial Immune System to Handle Constraints in Genetic Algorithms: Preliminary Results", *Congress on Evolutionary Computation (CEC'2002)*, IEEE Service Center, Piscataway, New Jersey, Volume 1, pp. 819–824, May 2002.**

1. Dipankar Dasgupta, "Advances in Artificial Immune Systems", *IEEE Computational Intelligence Magazine*, Vol. 1, No. 4, pp. 40–49, November 2006.
2. Jui-Yu Wu and Yun-Kung Chung, "Artificial Immune System for Solving Generalized Geometric Problems: A Preliminary Results", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 329–336, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.
3. Fabio A. González, Juan Carlos Galeano, Diego Alexander Rojas and Angélica Veloza-Suan, "Discriminating and Visualizing Anomalies Using Negative Selection and Self-Organizing Maps", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 1, pp. 297–304, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.
4. Fabio González, Jonatan Gómez, Madhavi Kaniganti and Dipankar Dasgupta, "An Evolutionary Approach to Generate Fuzzy Anomaly Signatures", in *Proceedings of the Fourth Annual IEEE Information Assurance Workshop*, pp. 251–259, West Point, NY, June 18-20, 2003 (**CONG INT**).
5. Pavel Ošmera, "Evolvable Controllers with Hierarchical Structure", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 758–765, Portland, Oregon, USA, June 2004 (**CONG INT**).
6. D. Dasgupta, Z. Ji and F. González, "Artificial Immune System (AIS) Research in the Last Five Years", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 123–130, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

7. Fabio González, Dipankar Dasgupta and Jonatan Gómez, "The Effect of Binary Matching Rules in Negative Selection", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 195–206, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).
8. Fabio González, "A Study of Artificial Immune Systems Applied to Anomaly Detection", PhD thesis, The University of Memphis, 2003 (**TES DOC**).
9. Jonatan Gómez, Fabio González and Dipankar Dasgupta, "An Immuno-Fuzzy Approach to Anomaly Detection", in *The IEEE International Conference on Fuzzy Systems*, pp. 1219–1224, St. Louis, Missouri, USA, May 2003 (**CONG INT**).
10. Pavel Ošmera, Bronislav Lacko and Masopust Petr, "Parallel Evolutionary Structures", in Sartaj Sahni (editor), *Proceedings of the IASTED International Conference on Computer Science and Technology*, pp. 393–398, Cancún, México, ACTA Press, May 2003, ISBN 0-88986-349-0 (**CONG INT**).

- **Coello Coello, Carlos A. and Cruz Cortés, Nareli, "An Approach to Solve Multiobjective Optimization Problems Based on an Artificial Immune System", en Jonathan Timmis and Peter J. Bentley (editors), *First International Conference on Artificial Immune Systems (ICARIS'2002)*, pp. 212–221, University of Kent at Canterbury, Inglaterra, ISBN 1-902671-32-5, Septiembre de 2002.**

1. Zhuhong Zhang, "Constrained multiobjective optimization immune algorithm: Convergence and application", *Computers & Mathematics with Applications*, Vol. 52, No. 5, pp. 791–808, September 2006.
2. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
3. Jérémi Régnier, "Conception de systèmes hétérogènes en Génie Électrique para Optimisation évolutionnaire multicritère", PhD thesis, Institut Nationale Polytechnique de Toulouse, France, December 2003 (**TES DOC**).
4. Fabio Freschi and Maurizio Repetto, "VIS: an artificial immune network for multi-objective optimization", *Engineering Optimization*, Vol. 38, No. 8, pp. 975–996, December 2006.
5. Wenping Ma, Licheng Jiao, Maoguo Gong and Fang Liu, "An Novel Artificial Immune System Multi-objective Optimization Algorithm for 0/1 Knapsack Problems", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 793–798, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.
6. H.Y. Lau, E.Y.C. Wong, "An AIS-based Dynamic Routing (AISDR) framework", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan

Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 56–71, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005 (**CONG INT**).

7. Fabio Freschi and Maurizio Repetto, "Multiobjective Optimization by a Modified Artificial Immune System Algorithm", in Christian Jacob, Marcin L. Pilat, Peter J. Bentley and Jonathan Timmis (editors), *Artificial Immune Systems. 4th International Conference, ICARIS 2005*, pp. 248–261, Springer. Lecture Notes in Computer Science Vol. 3627, Banff, Canada, August 2005 (**CONG INT**).
8. Daniel Stevens, Sanjoy Das and Bala Natarajan, "A Multi-objective Algorithm for DS-CDMA Code Design Based on the Clonal Selection Principle", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, Vol. 2, pp. 2015–2020, ACM Press, ISBN 1-59593-010-8, Washington DC, USA, June 2005.
9. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).
10. Licheng Jiao, Maoguo Gong, Ronghua Shang, Haifeng Du and Bin Lu, "Clonal Selection with Immune Dominance and Anergy Based Multiobjective Optimization", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 474–489, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
11. Adnan Acan, "Clonal Selection Algorithm with Operator Multiplicity", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1909–1915, Portland, Oregon, USA, June 2004 (**CONG INT**).
12. Fabio A. González and Dipankar Dasgupta, "Anomaly Detection Using Real-Valued Negative Selection", *Genetic Programming and Evolvable Machines*, Vol. 4, No. 4, pp. 383–403, December 2003 (**JOUR INT**).
13. Johnny Kelsey and Jon Timmis, "Immune Inspired Somatic Contiguous Hypermutation for Function Optimization", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 207–218, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).
14. Fabio González, "A Study of Artificial Immune Systems Applied to Anomaly Detection", PhD thesis, The University of Memphis, 2003 (**TES DOC**).

- **Coello Coello, Carlos A. & Cruz Cortés, Nareli, "Use of Emulations of the Immune System to Handle Constraints in Evolutionary Algorithms", en Cihan H. Dagli, Anna L. Buczak, Joydeep Ghosh, Mark J. Embrechts, Okan Erson & Stephen Kercel (eds.), *Intelligent Engineering Systems through Artificial Neural Networks* (ANNIE'2001), ASME Press, Vol. 11, pp. 141–146, St. Louis Missouri, November 2001.**

1. Zhuhong Zhang, "Immune optimization algorithm for constrained nonlinear multiobjective optimization problems", *Applied Soft Computing*, Vol. 7, No. 3, pp. 840–857, June 2007.
2. Jerzy Balicki, "Multi-criterion Evolutionary Algorithm with Model of the Immune System to Handle Constraints for Task Assignments", in Leszek Rutkowski, Jörg H. Siekmann, Ryszard Tadeusiewicz and Lotfi A. Zadeh (Editors), *Artificial Intelligence and Soft Computing - ICAISC 2004, 7th International Conference. Proceedings*, Springer. Lecture Notes in Computer Science Vol. 3070, pp. 394–399, Zakopane, Poland, June 2004 (**CONG INT**).
3. Nivedita Sumi Majumdar, "Anomaly Detection in Single and Multidimensional Datasets using Artificial Immune Systems", Masters Thesis, Department of Computer Science, The University of Memphis, May 2002 (**TES MAE**).

- **Coello Coello, Carlos A. & Salazar Lechuga, Maximino, "MOPSO: A Proposal for Multiple Objective Particle Swarm Optimization", *Congress on Evolutionary Computation (CEC'2002)*, IEEE Service Center, Piscataway, New Jersey, Volume 2, pp. 1051–1056, May 2002.**

1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
2. Haluk Yapicioglu, Alice E. Smith and Gerry Dozier, "Solving the semi-desirable facility location problem using bi-objective particle swarm", *European Journal of Operational Research*, Vol. 177, No. 2, pp. 733–749, March 1, 2007.
3. S.L. Ho, S.Y. Yang, G.Z. Ni and K.F. Wong, "An efficient multiobjective optimizer based on genetic algorithm and approximation techniques for electromagnetic design", *IEEE Transactions on Magnetics*, Vol. 43, No. 4, pp. 1605–1608, April 2007.
4. Haluk Yapicioglu, Gerry Dozier and Alice E. Smith, "Neural Network Enhancement of Multiobjective Evolutionary Search", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6800–6806, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
5. Wen-Fung Leong and Gary G. Yen, "Dynamic Population size in PSO-based Multiobjective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6182–6189, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
6. Ching-Shih Tsou and Chia-Hung Kaoin, "An Electromagnetism-Like Meta-Heuristic for Multi-Objective Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3988–3994, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).

7. A.R. Rahimi-Vahed and S.M. Mirghorbani, “A multi-objective particle swarm for a flow shop scheduling problem”, *Journal of Combinatorial Optimization*, Vol. 13, No. 1, pp. 79–102, January 2007 (**JOUR INT**).

8. Yiğit Karpat and Tuğrul Özel, “Swarm-Intelligent Neural Network System (SINNS) Based Multi-Objective Optimization of Hard Turning”, *Transactions of North American Manufacturing Research Institute*, pp. 9–16, Vol. 34, 2006 (**JOUR INT**).

9. Ching-Shih Tsou, Hsiao-Hua Fang, Hsu-Hwa Chang and Chia-Hung Kao, “An Improved Particle Swarm Pareto Optimizer with Local Search and Clustering”, in Tzai-Der Wang, Xiaodong Li, Shu-Heng Chen, Xufa Wang, Hussein A. Abbass, Hitoshi Iba, Guoliang Chen and Xin Yao (Editors), *Simulated Evolution and Learning, 6th International Conference, SEAL 2006, Proceedings*, pp. 400–407, Springer, Lecture Notes in Computer Science Vol. 4247, Hefei, China, October, 2006.

10. M. Janga Reddy and D. Nagesh Kumar, “An efficient multi-objective optimization algorithm based on swarm intelligence for engineering design”, *Engineering Optimization*, Vol. 39, No. 1, pp. 49–68, January 2007.

11. Jürgen Branke and Sanaz Mostaghim, “About Selecting the Personal Best in Multi-Objective Particle Swarm Optimization”, in Thomas Philip Runarsson, Hans-Georg Beyer, Edmund Burke, Juan J. Merelo-Guervós, L. Darrell Whitley and Xin Yao (editors), *Parallel Problem Solving from Nature - PPSN IX, 9th International Conference*, pp. 523–532, Springer. Lecture Notes in Computer Science Vol. 4193, Reykjavik, Iceland, September 2006.

12. X.H. Huo, L.C. Shen and H.Y. Zhu, “A smart particle swarm optimization algorithm for multi-objective problems”, *Computational Intelligence and Bioinformatics*, Part 3, pp. 72–80, Springer-Verlag, Lecture Notes in Computer Science Vol. 4115, 2006.

13. James Kennedy, “Swarm Intelligence”, in Albert Y. Zomaya (editor), *Handbook of Nature-Inspired and Innovative Computing. Integrating Classical Models with Emerging Technologies*, Chapter 6, pp. 187–219, Springer, USA, ISBN 0-387-40532-1 (**CAP LIB**).

14. M.K. Gill, Y.H. Kaheil, A. Khalil, M. Mckee and L. Bastidas, “Multiobjective particle swarm optimization for parameter estimation in hydrology”, *Water Resources Research*, Vol. 42, No. 7, Art. No. W07417, July 22, 2006.

15. Daniel W. Boeringer and Douglas H. Werner, “Bézier representations for the multiobjective, optimization of conformal array amplitude weights”, *IEEE Transactions on Antennas and Propagation*, Vol. 54, No. 7, pp. 1964–1970, July 2006.

16. Maurice Clerc, “Particle Swarm Optimization”, ISTE Ltd, London, UK, ISBN 1-905209-04-5, 2006, página 159, (**LIB ING**).

17. S.J. Ho, W.Y. Ku, J.W. Jou, M.H. Hung and S.Y. Ho, "Intelligent particle swarm optimization in multi-objective problems", in *Advances in Knowledge Discovery and Data Mining*, Springer, pp. 790–800, Lecture Notes in Artificial Intelligence Vol. 3918, 2006.

18. Adnan Acan and Akin Gunay, "Multi-objective Mobile Agent Routing in Wireless Sensor Networks", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1875–1882, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

19. V.L. Huang, P.N. Suganthan and J.J. Liang, "Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems", *International Journal of Intelligent Systems*, Vol. 21, No. 2, pp. 209–226, February 2006.

20. Xiaohua Zhang, Hongyun Meng and Licheng Jiao, "Improving PSO-Based Multiobjective Optimization Using Competition and Immunity Clonal", in Yue Hao et al. (editors), *Computational Intelligence and Security. International Conference, CIS 2005*, pp. 839–845, Springer, Lecture Notes in Artificial Intelligence Vol. 3801, Xi'an, China, December 2005.

21. H.Y. Meng, X.H. Zhang and S.Y. Liu, "Intelligent multiobjective particle swarm optimization based on AER model", in *Progress in Artificial Intelligence, Proceedings*, pp. 178–189, Springer, Lecture Notes in Artificial Intelligence Vol. 3808, 2005.

22. Zhang Xiao-hua, Meng Hong-yun and Jiao Li-cheng, "Intelligent Particle Swarm Optimization in Multiobjective Optimization", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 714–719, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

23. Andries P. Engelbrecht, "Fundamentals of Computational Swarm Intelligence", John Wiley & Sons, Ltd, 2005, ISBN 978-0-470-09191-3, páginas 41, 197, 283 y 336 (**LIB ING**).

24. Rui Mendes, "Population Topologies and Their Influence in Particle Swarm Performance", PhD thesis, Departamento de Informática, Escola de Engenharia, Universidade do Minho, Portugal, April 21, 2004.

25. D.W. Gong, Y. Zhang and J.H. Zhang, "Multi-objective particle swarm optimization based on minimal particle angle", *Advances in Intelligent Computing, Pt 1, Proceedings*, pp. 571–580, Springer-Verlag, Lecture Notes in Computer Science Vol. 3644, 2005.

26. Bo Zhao and Yi-jia Cao, "Multiple objective particle swarm optimization technique for economic load dispatch", *Journal of Zhejiang University SCIENCE*, Vol. 6A, No. 5, pp. 420–427, 2005 (**JOUR INT**).

27. J. Regnier, B. Sareni and X. Roboam, "System optimization by multiobjective genetic algorithms and analysis of the coupling between variables, constraints and objectives", *COMPEL-The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, Vol. 24, No. 3, pp. 805–820, 2005.

28. S.L. Ho, Shiyou Yang, Guangzheng Ni, Edward W.C. Lo and H.C. Wong, "A Particle Swarm Optimization-Based Method for Multiobjective Design Optimizations", *IEEE Transactions on Magnetics*, Vol. 41, No. 5, pp. 1756–1759, May 2005 (**JOUR INT**).

29. Julio E. Alvarez-Benitez, Richard M. Everson and Jonathan E. Fieldsend, "A MOPSO Algorithm Based Exclusively on Pareto Dominance Concepts", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 459–473, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

30. Mahamed G.H. Omran, "Particle Swarm Optimization Methods for Pattern Recognition and Image Processing", PhD thesis, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, Pretoria, South Africa, November 2004 (**TES DOC**).

31. Xavier Gandibleux and Matthias Ehrgott, "1984-2004 – 20 Years of Multiobjective Metaheuristics. But What About the Solution of Combinatorial Problems with Multiple Objectives?", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 33–46, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).

32. P. Limbourg and D. Germann, "Reliability Assessment and Optimization under Uncertainty in the Dempster-Shafer Framework", in *27th ESReDA SEMINAR*, Glasgow, UK, 2004 (**CONG INT**).

33. James Kennedy, "Particle Swarms: Optimization Based on Sociocognition", in Leandro N. de Castro & Fernando J. Von Zuben (editors), *Recent Developments in Biologically Inspired Computing*, Chapter X, Idea Group Publishing, pp. 235–268, Hershey, USA, 2005, ISBN 1-59140-313-8. (**CAP LIB**).

34. Sanaz Mostaghim and Jürgen Teich, "Covering Pareto-optimal Fronts by Subswarms in Multi-objective Particle Swarm Optimization", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1404–1411, Portland, Oregon, USA, June 2004 (**CONG INT**).

35. Chi-kin Chow and Hung-tat Tsui, "Autonomous Agent Response Learning by a Multi-Species Particle Swarm Optimization", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 778–785, Portland, Oregon, USA, June 2004 (**CONG INT**).

36. Leticia Cagnina, Susana Esquivel and Raúl Gallard, "Particle Swarm Optimization for Sequencing Problems: A Case Study", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 536–541, Portland, Oregon, USA, June 2004 (**CONG INT**).

37. Xiaohui Hu, Yuhui Shi and Russ Eberhart, "Recent Advances in Particle Swarm", in *2004 Congress on Evolutionary Computation (CEC'2004)*,

IEEE Service Center, Vol. 1, pp. 90–97, Portland, Oregon, USA, June 2004 (**CONG INT**).

38. Manoj Tayal, "Particle Swarm Optimization for Mechanical Design", Masters thesis, The University of Texas at Arlington, Arlington, Texas, USA, December 2003 (**TES MAES**).
39. Xiaodong Li, "Better Spread and Convergence: Particle Swarm Multiobjective Optimization Using the Maximin Fitness Function", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 117–128, Seattle, Washington, USA, June 2004 (**CONG INT**).
40. Konstantinos E. Parsopoulos and Michael N. Vrahatis, "On the Computation of All Global Minimizers Through Particle Swarm Optimization", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 3, pp. 211–224, June 2004 (**JOUR INT**).
41. Daniel W. Boeringer and Douglas H. Werner, "Particle swarm optimization versus genetic algorithms for phased array synthesis", *IEEE Transactions on Antennas and Backpropagation*, Vol. 52, No. 3, pp. 771–779, March 2004 (**JOUR INT**).
42. K.E. Parsopoulos, D.K. Tasoulis and M.N. Vrahatis, "Multiobjective Optimization Using Parallel Vector Evaluated Particle Swarm Optimization", in *Proceedings of the IASTED International Conference on Artificial Intelligence and Applications (AIA 2004)*, pp. 823–828, Vol. 2, ACTA Press, Innsbruck, Austria, February 2004, ISBN 0-88986-375-X (**CONG INT**).
43. Jonathan Edward Fieldsend, "Novel Algorithms for Multi-Objective Search and their Application in Multi-Objective Evolutionary Neural Network Training", PhD thesis, Department of Computer Science, University of Exeter, Exeter, UK, June 2003 (**TES DOC**).
44. Yuhui Shi, "Particle Swarm Optimization", *Connections. The Newsletter of the IEEE Neural Networks Society*, Vol. 2, No. 1, pp. 8–13, ISSN 1543-4281, February 2004 (**REV DIV**).
45. Thomas Bartz-Beielstein, Philipp Limbourg, Konstantinos E. Parsopoulos, Michael N. Vrahatis, Jörn Mehnen and Karlheinz Schmitt, "Particle Swarm Optimizers for Pareto Optimization with Enhanced Archiving Techniques", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1780–1787, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
46. Sanaz Mostaghim and Jürgen Teich, "The Role of ε-dominance in Multi Objective Particle Swarm Optimization Methods", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1764–1771, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

47. Lino Costa and Pedro Oliveira, "An Adaptive Sharing Elitist Evolution Strategy for Multiobjective Optimization", *Evolutionary Computation*, Vol. 11, No. 4, pp. 417-438, Winter 2003 (**JOUR INT**).

48. Venu G. Gudise and Ganesh K. Venayagamoorthy, "Evolving Digital Circuits Using Particle Swarm", *Proceedings of the INNS-IEEE International Joint Conference on Neural Networks*, pp. 468–472, IEEE Press, Portland, Oregon, USA, July 20-24, 2003 (**CONG INT**).

49. Haiming Lu, "State-of-the-art Multiobjective Evolutionary Algorithms—Pareto Ranking, Density Estimation and Dynamic Population", PhD thesis, Oklahoma State University, Stillwater, Oklahoma, August 2002 (**TES DOC**).

50. Xiaodong Li, "A Non-dominated Sorting Particle Swarm Optimizer for Multiobjective Optimization", in Erick Cantú-Paz et al. (editors), *Genetic and Evolutionary Computation—GECCO 2003. Proceedings, Part I*, pp. 37–48, Springer. Lecture Notes in Computer Science Vol. 2723, July 2003 (**CONG INT**).

51. David W. Corne, Kalyanmoy Deb, Peter J. Fleming and Joshua D. Knowles, "The Good of the Many Outweights the Good of the One: Evolutionary Multi-Objective Optimization", *Connections. The Newsletter of the IEEE Neural Networks Society*, Vol. 1, No. 1, pp. 9–13, ISSN 1543-4281, February 2003 (**REV DIV**).

52. Xiaohui Hu, Russell C. Eberhart and Yuhui Shi, "Swarm Intelligence for Permutation Optimization: A Case Study of n-Queens Problem", in *2003 IEEE Swarm Intelligence Symposium Proceedings*, IEEE Service Center, pp. 243–246, Indianapolis, Indiana, USA, April 2003 (**CONG INT**).

53. Xiaohui Hu, Russell C. Eberhart and Yuhui Shi, "Particle Swarm with Extended Memory for Multiobjective Optimization", in *2003 IEEE Swarm Intelligence Symposium Proceedings*, IEEE Service Center, pp. 193–197, Indianapolis, Indiana, USA, April 2003 (**CONG INT**).

54. Sanaz Mostaghim and Jürgen Teich, "Strategies for Finding Good Local Guides in Multi-objective Particle Swarm Optimization (MOPSO)", in *2003 IEEE Swarm Intelligence Symposium Proceedings*, IEEE Service Center, pp. 26–33, Indianapolis, Indiana, USA, April 2003 (**CONG INT**).

55. Jonathan E. Fieldsend and Sameer Singh, "A Multi-Objective Algorithm based upon Particle Swarm Optimisation, an Efficient Data Structure and Turbulence", *Proceedings of the 2002 U.K. Workshop on Computational Intelligence*, pages 37–44, Birmingham, UK, 2-4 Sept. 2002 (**CONG INT**).

- Susana C. Esquivel and Carlos A. Coello Coello, "Particle Swarm Optimization in Non-Stationary Environments", in Christian Lemaître, Carlos A. Reyes and Jesús A. González (editors), *Advances in Artificial Intelligence - IBERAMIA 2004*, pp. 757–766, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 3315, Puebla, México, November 2004.

1. Xuanping Zhang, Yuping Du, Zheng Qin, Guoqiang Qin and Jiang Lu, "A Modified Particle Swarm Optimizer for Tracking Dynamic Systems", in L. Wang, K. Chen and Y.S. Ong (editors), *Advances in Natural Computation, Part 3, Proceedings, ICNC 2005*, Springer, pp. 592–601, Lecture Notes in Computer Science Vol. 3612, 2005.

- Esquivel, Susana C. and Coello Coello, Carlos A., "On the Use of Particle Swarm Optimization with Multimodal Functions", in *Proceedings of 2003 Congress on Evolutionary Computation (CEC'2003)*, Vol. 2, pp. 1130–1136, IEEE Press, Canberra, Australia, December, 2003.

  1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
  2. Paul S. Andrews, "An Investigation into Mutation Operators for Particle Swarm Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3789–3796, IEEE, Vancouver, BC, Canada, July 2006.
  3. A. Edwards and A.P. Engelbrecht, "Comparing Particle Swarm Optimisation and Genetic Algorithms for Nonlinear Mapping", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 2709–2716, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
  4. Adnan Acan, Ahmet Unveren and Mehmet Bodur, "The Latest vs. Averaged Recent Experience: Which Better Guides a PSO Algorithm", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 1521–1526, IEEE, Vancouver, BC, Canada, July 2006.
  5. Jesús Ramón Pérez López, "Contribución a los métodos de optimización basados en procesos naturales y su aplicación a la medida de antenas de campo próximo", PhD thesis, Departamento de Ingeniería de Comunicaciones, Universidad de Cantabria, España, Octubre de 2005 (**TES DOC**).
  6. J.J. Liang, A.K. Qin, Ponnuthurai Nagaratnam Suganthan and S. Baskar, "Comprehensive Learning Particle Swarm Optimizer for Global Optimizations of Multimodal Functions", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 230–244, June 2006 (**JOUR INT**).
  7. Adnan Acan and Akin Gunay, "Multi-objective Mobile Agent Routing in Wireless Sensor Networks", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1875–1882, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.
  8. Andries P. Engelbrecht, "Fundamentals of Computational Swarm Intelligence", John Wiley & Sons, Ltd, 2005, ISBN 978-0-470-09191-3, páginas 41, 197, 283 y 336 (**LIB ING**).
  9. Auralia I. Edwards, Andries P. Engelbrecht and Nelis Franken, "Nonlinear Mapping using Particle Swarm Optimisation", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 306–313, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.

- **Islas Pérez, Eduardo; Coello Coello, Carlos A. & Hernández Aguirre, Arturo, "Extraction of Design Patterns from Evolutionary Algorithms using Case-Based Reasoning", en Yong Liu, Kiyoshi Tanaka, Masaya Iwata, Tetsuya Higuchi and Moritoshi Yasunaga (editores), *Evolvable Systems: From Biology to Hardware (ICES'2001)*, pp. 244–255, Tokio, Japón, Springer-Verlag, Lecture Notes in Computer Science Vol. 2210, Octubre de 2001.**

    1. S.J. Louis, "Genetic learning for combinational logic design", *Soft Computing–A Fusion of Foundations, Methodologies and Applications*, Springer-Verlag, Vol. 9, No. 1, pp. 38–43, January 2005 (**JOUR INT**).
    2. Vivek Balaraman, "Case Based Reasoning", in Anil Menon (editor), *Frontiers of Evolutionary Computation*, Kluwer Academic Publishers, Boston, 2004, ISBN 1-4020-7524-3, p. 225 (**CAP LIB**).
    3. Sushil J. Louis, "Case Injected Genetic Algorithms for Learning Across Problems", *Engineering Optimization*, Vol. 36, No. 2, pp. 237–247, April 2004 (**JOUR INT**).
    4. Sushil J. Louis, "Genetic Learning from Experience", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 2118–2125, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
    5. Rich Drewes, John McDonnell, Sushil J. Louis, Nick Gizzi and Chris Miles, "Use of Case Injection to Bias Genetic Algorithm Solutions of Similar Problems", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1170–1177, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
    6. Sushil J. Louis, "Learning from Experience: Case Injected Genetic Algorithm Design of Combinational Logic Circuits", in Ian C. Parmee (editor), *Adaptive Computing in Design and Manufacture V*, pp. 295–306, Springer, Abril de 2002. (**CONG INT**)

- Islas Pérez, Eduardo, Coello Coello, Carlos A., Hernández Aguirre, Arturo & Villavicencio Ramírez, A., "Genetic Algorithms and Case-Based Reasoning as a Discovery and Learning Machine in the Optimization of Combinational Logic Circuits", en Carlos A. Coello Coello, Alvaro de Albornoz, Enrique Sucar & Osvaldo Cairó Battistutti (eds), *MICAI'2002: Advances in Artificial Intelligence*, Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 2313, pp. 128–137, Abril de 2002.

    1. Jin Wang and Chong Ho Lee, "Introducing Partitioning Training Set Strategy to Intrinsic Incremental Evolution", in Alexander Gelbukh and Carlos Alberto Reyes-Garcia (editors), *MICAI 2006: Advances in Artificial Intelligence, 5th Mexican International Conference on Artificial Intelligence*, pp. 272–282, Springer, Lecture Notes in Artificial Intelligence Vol. 4293, Apizaco, Mexico, November 2006.

- **Islas Pérez, Eduardo; Coello Coello, Carlos A. & Hernández Aguirre, Arturo, "Extracting and Re-Using Design Patterns from Genetic Algorithms using Case-Based Reasoning", en Alwyn Barry (editor), *2002 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 27–30, New York, July 2002.**

    1. Brent Stephens, "Using Genetic Algorithms to Discover Selection Criteria for Resolving Contradictory Solutions Returned by CBR", Masters thesis, Department of Electrical Engineering and Computer Science, University of Kansas, USA, May 2005 (**TES MAE**).
    2. C. Tsatsoulis and B. Stephens, "Using genetic algorithms to discover selection criteria for contradictory solutions retrieved by CBR", in *Proceedings of Case-Based Reasoning Research and Development*, Springer, Lecture Notes in Artificial Intelligence, Vol. 2689, pp. 567–580, 2003 (**CONG INT**).

- Coello Coello, Carlos A. y Yáñez López, Araceli. "El Algoritmo Genético como Alternativa a la Programación Dinámica", páginas 151–157, *Actas del VIII Simposio Internacional en Aplicaciones de Informática*, Antofagasta, Chile, 21 al 25 de noviembre de 1994.

    1. Erich Germán Grüttner Díaz, "Determinación de Recorridos Óptimos de Líneas de Transporte Público Utilizando Algoritmos Genéticos", Tesis de Licenciatura, Facultad de Ingeniería, Departamento de Ingeniería Informática y Ciencias de la Computación, Universidad de Concepción, Chile, abril de 2002 (**TES LIC**).

- **Coello Coello, Carlos A. "Handling Preferences in Evolutionary Multiobjective Optimization: A Survey", *2000 Congress on Evolutionary Computation*, pp. 30–37, Volume 1, IEEE Service Center, Piscataway, New Jersey, Julio del 2000.**

    1. Gideon Avigad, "Search and Selection of Concepts in Multi-objective Engineering Problems Using Evolutionary Algorithms", PhD thesis, The Iby and Aladar Fleischman Faculty of Engineering, The Zandman-Slaner Graduate School of Engineering, Tel Aviv University, Israel, November 2006 (**TES DOC**).
    2. Francesco di Pierro, "Many-Objective Evolutionary Algorithms and Applications to Water Resources Engineering", PhD thesis, School of Engineering, Computer Science and Mathematics, University of Exeter, UK, August 2006 (**TES DOC**).
    3. L. Rachmawati and D. Srinivasan, "A Multi-Objective Genetic Algorithm with Controllable Convergence on Knee Regions", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6807–6814, IEEE, Vancouver, BC, Canada, July 2006.

4. L. Rachmawati and D. Srinivasan, "Preference Incorporation in Multi-objective Evolutionary Algorithms: A Survey", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3385–3391, IEEE, Vancouver, BC, Canada, July 2006.
5. Frederico G. Guimarães, Felipe Campelo, Rodney R. Saldanha, Hajime Igarashi, Ricardo H.C. Takahashi and Jaime A. Ramírez, "A Multiobjective Proposal for the TEAM Benchmark Problem 22", *IEEE Transactions on Magnetics*, Vol. 42, No. 4, pp. 1471–1474, April 2006.
6. Alexandra Melike Brintrup, Jeremy Ramsden, and Ashutosh Tiwari, "Integrated Qualitativeness in Design by Multi-Objective Optimization and Interactive Evolutionary Computation", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 2154–2160, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).
7. Alessandro Benedetti, Marco Farina and M. Gobbi, "Evolutionary Multiobjective Industrial Design: The Case of a Racing Car Tire-Suspension System", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 3, pp. 230–244, June 2006 (**JOUR INT**).
8. Matěj Lepš, "Single and Multi-Objective Optimization in Civil Engineering", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 322–342, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).
9. Lily Rachmawati and Dipti Srinivasan, "A Hybrid Fuzzy Evolutionary Algorithm for a Multi-Objective Resource Allocation Problem", in Nadia Nedjah, Luiza M. Mourelle, Marley M.B.R. Vellasco, Ajith Abraham and Mario Köppen (editors), *Fifth International Conference on Hybrid Intelligent Systems (HIS'05)*, pp. 55–60, IEEE Computer Society, Los Alamitos, California, USA, November, 2005 (**CONG INT**).
10. Tomoyuki Hiroyasu, Mitsunori Miki, Jiro Kamiura, Shinya Watanabe and Hiro Hiroyasu, "MOGADES: Multi-Objective Genetic Algorithm with Distributed Environment Scheme", in Ajith Abraham, Lakhmi Jain and Robert Goldberg (editors), *Evolutionary Multiobjective Optimization. Theoretical Advances and Applications*, pp. 201–227, Springer, USA, 2005 (**CAP LIB**).
11. Peter Fleming, Robin C. Purshouse and Robert J. Lygoe, "Many-Objective Optimization: An Engineering Design Perspective", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 14–32, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
12. R.F. Coelho and P. Bouillard, "A multicriteria evolutionary algorithm for mechanical design optimization with expert rules", *International Journal for Numerical Methods in Engineering*, Vol. 62, No. 4, pp. 516–536, January 28, 2005 (**JOUR INT**).

13. Jiachuan Wang and Janis P. Terpenny, "Interactive Preference Incorporation in Evolutionary Engineering Design", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 525–543, Berlin Heidelberg, 2005, ISBN 3-540-22902-7 (**CAP LIB**).

14. Jürgen Branke and Kalyanmoy Deb, "Integrating User Preferences into Evolutionary Multi-Objective Optimization", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 461–477, Berlin Heidelberg, 2005, ISBN 3-540-22902-7 (**CAP LIB**).

15. Yorgos Goletsis, Costas Papaloukas, Dimitrios I. Fotiadis, Aristidis Likas and Lampros K. Michalis, "Automated Ischemic Beat Classification Using Genetic Algorithms and Multicriteria Decision Analysis", *IEEE Transactions on Biomedical Engineering*, Vol. 51, No. 10, pp. 1717–1725, October 2004 (**JOUR INT**).

16. K. Mitra, S. Majumdar and S. Raha, "Multiobjective optimization of a semibatch epoxy polymerization process using the elitist genetic algorithm", *Industrial & Engineering Chemistry Research*, Vol. 43, No. 19, pp. 6055–6063, September 15, 2004 (**JOUR INT**).

17. Marco Farina and Massimiliano Gobbi, "A fuzzy-optima definition based Multiobjective optimization of a racing car type-suspension system", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 9–16, Portland, Oregon, USA, June 2004 (**CONG INT**).

18. Yann Collette and Patrick Siarry, "Multiobjective Optimization. Principles and Case Studies", Springer, Berlin, 2003, ISBN 3-540-40182-2 (**LIB ING**).

19. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

20. M. Farina and P. Amato, "A fuzzy definition of "optimality" for many-criteria optimization problems", *IEEE Transactions on Systems, Man, and Cybernetics Part A—Systems and Humans*, Vol. 34, No. 3, pp. 315–326, May 2004 (**JOUR INT**).

21. S. Phelps and M. Koksalan, "An interactive evolutionary metaheuristic for multiobjective combinatorial optimization", *Management Science*, Vol. 49, No. 12, pp. 1726–1738, December 2003 (**JOUR INT**).

22. Robin Charles Purshouse, "On the Evolutionary Optimisation of Many Objectives", PhD thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, September 2003 (**TES DOC**).

23. Lisa Purvis, Steven Harrington, Barry O'Sullivan and Eugene C. Freuder, "Creating personalized documents: an optimization approach", in *Proceedings of the 2003 ACM Symposium on Document Engineering*, pp. 68–77, ACM Press, Grenoble, France, November 2003 (**CONG INT**).

24. T. Kiyota, Y. Tsuji and E. Kondo, "Unsatisfying functions and multiobjective fuzzy satisficing design using genetic algorithms", *IEEE Transactions on Systems, Man, and Cybernetics Part B-Cybernetics*, Vol. 33, No. 6, pp. 889–897, December 2003 (**JOUR INT**).
25. R.F. Coelho, H. Bersini and P. Bouillard, "Parametrical mechanical design with constraints and preferences: application to a purge valve", *Computer Methods in Applied Mechanics and Engineering*, Vol. 192, Nos. 39–40, pp. 4355–4378, 2003 (**JOUR INT**).
26. Neil Holger White Eklund, "Multiobjective Visible Spectrum Optimization: A Genetic Algorithm Approach", PhD Thesis, Rensselaer Polytechnic Institute, Troy, New York, USA, September 2002 (**TES DOC**).
27. Yaochu Jin, *Advanced Fuzzy Systems Design and Applications*, Physica-Verlag, 2003, página 45, ISBN 3-7908-1537-3 (**LIB ING**).
28. Jiro Kamiura, Tomoyuki Hiroyasu, Mitsunori Miki and Shinya Watanabe, "MOGADES: Multi-Objective Genetic Algorithm with Distributed Environment Scheme", in *Computational Intelligence and Applications (Proceedings of the Second International Workshop on Intelligence Systems Design and Applications: ISDA'02)*, pp. 143–148, 2002 (**CONG INT**).
29. P.J. Fleming and R.C. Purshouse, "Evolutionary algorithms in control systems engineering: a survey", *Control Engineering Practice*, Vol. 10, No. 11, pp. 1223–1241, November 2002 (**JOUR INT**).
30. Dragan Cvetković & Ian C. Parmee, "Preferences and their Application in Evolutionary Multiobjective Optimisation", *IEEE Transactions on Evolutionary Computation*, Vol. 6, No. 1, pp. 42–57, February 2002.(**JOUR INT**)
31. Dragan Cvetković, *Evolutionary Multi-Objective Decision Support Systems for Conceptual Design*, Plymouth Engineering Design Centre, School of Computing, Faculty of Technology, University of Plymouth, England, July 2000. (**TES DOC**)

- **Coello Coello, Carlos A.; Zavala G. Rosa Laura; Mendoza G., Benito & Hernández Aguirre, Arturo, "Ant Colony System for the Design of Combinational Logic Circuits", en Julian Miller, Adrian Thompson, Peter Thomson and Terence C. Fogarty (Eds.),** ***Evolvable Systems: From Biology to Hardware*****, Edimburgo, Escocia, Springer-Verlag, pp. 21–30, April 2000.**

1. Bernd Scheuermann, "Ant Colony Optimization on Runtime Reconfigurable Architectures", PhD thesis, Fakultät für Wirtschaftswissenschaften, Universität Fridericiana zu Karlsruhe, Germany, 2005 (**TES DOC**).
2. Said M. Sait and Mahammad Al-Ismail, "Enhanced Simulated Evolution Algorithm for Digital Circuit Design Yielding Faster Execution in a Larger Solution Space", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1794–1799, Portland, Oregon, USA, June 2004 (**CONG INT**).

3. Y. Li and S.H. Gong, "Dynamic ant colony optimisation for TSP", *International Journal of Advanced Manufacturing Technology*, Vol. 22, Nos. 7-8, pp. 528–533, November 2003 (**JOUR INT**).
4. Mostafa Abd-El-Barr, Sadiq M. Sait, Bambang A.B. Sarif and Uthman Al-Saiari, "A Modified Ant Colony Algorithm for Evolutionary Design of Digital Circuits", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 708–715, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
5. Morgan R. Tamplin & Alister Hamilton, "Ant Circuit World: An Ant Algorithm MATHLAB^{TM} Toolbox for the Design, Visualisation and Analysis of Analogue Circuits", en Yong Liu, Kiyoshi Tanaka, Masaya Iwata, Tetsuya Higuchi and Moritoshi Yasunaga (eds.), *Evolvable Systems: From Biology to Hardware. Proceedings of the 4th International Conferece*, pp. 151–158, Springer Verlag, Lecture Notes in Computer Science No. 2210, Tokio, Japón, Octubre de 2001. (**CONG INT**)
6. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)
7. Ibrahim Gokcen, Ivo H. Pineda, Xiaohui Yuan, Cris Koutsougeras & Bill P. Buckles, "Image Segmentation Using Ant Colony System", *Late Breaking Papers at the 2000 Genetic and Evolutionary Computation Conference*, pp. 284–289, Las Vegas Nevada, July 2000. (**CONG INT**)

- Hernández Aguirre, Arturo; Buckles, Bill P. & Coello Coello, Carlos A. "Evolutionary Synthesis of Logic Functions using Multiplexers", en Cihan H. Dagli, Anna L. Buczak, Joydeep Ghosh, Mark Embrechts Okan Ersoy & Stephen Kercel (Editors), *Smart Engineering System Design: Neural Networks, Fuzzy Logic, Evolutionary Programming, Data Mining, and Complex Systems (ANNIE'2000)*, ASME Press, New York, pp 311–316, November, 2000.

  1. Nguyen Xuan Hoai and R.I. Mc Kay, "An Investigation on the Roles of Insertion and Deletion Operators in Tree Adjoining Grammar Guided Genetic Programming" in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 472–477, Portland, Oregon, USA, June 2004 (**CONG INT**).
  2. Ricardo Salem Zebulum, Marco Aurélio C. Pacheco and Marley Maria B.R. Vellasco, "Evolutionary Electronics. Automatic Design of Electronic Circuits and Systems by Genetic Algorithms", CRC Press, Boca Raton, Florida, página 170, 2002 (**LIB ING**).

- Ricardo Landa Becerra and Carlos A. Coello Coello, "Culturizing Differential Evolution for Constrained Optimization", in Ricardo Baeza-Yates, J. Luis Marroquin and Edgar Chávez (editors), *Proceedings of the Fifth International Conference on Computer Science (ENC 2004)*, pp. 304–311, IEEE Computer Society, Los Alamitos, California, September 2004.

1. Fang Gao, Hongwei Liu, Qiang Zhao and Gang Cui, "Hybrid model of genetic algorithm and cultural algorithms for optimization problem", *Simulated Evolution and Learning, Proceedings*, pp. 441–448, Springer, Lecture Notes in Computer Science Vol. 4247, 2006.
2. Leandro dos Santos Coelho and Viviana Cocco Mariani, "An Efficient Particle Swarm Optimization Approach Based on Cultural Algorithm Applied to Mechanical Design", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3844–3849, IEEE, Vancouver, BC, Canada, July 2006.

- Hernández Aguirre, Arturo, Buckles, Bill P. & Coello Coello, Carlos A. "Gate-level Synthesis of Boolean Functions using Binary Multiplexers and Genetic Programming", *2000 Congress on Evolutionary Computation*, pp. 675–682, Volume 1, IEEE Service Center, Piscataway, New Jersey, Julio del 2000.

  1. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)

- **Hernández Aguirre, Arturo; Coello Coello, Carlos A. & Buckles, Bill P. "A Genetic Programming Approach to Logic Function Synthesis by means of Multiplexers",** ***Proceedings of the First NASA/DoD Workshop on Evolvable Hardware*****, Edited by Adrian Stoica, Didier Keymeulen and Jason Lohn, pp. 46–53, IEEE Computer Society Press, Los Alamitos, California, July, 1999.**

  1. Nguyen Xuan Hoai and R.I. Mc Kay, "An Investigation on the Roles of Insertion and Deletion Operators in Tree Adjoining Grammar Guided Genetic Programming" in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 472–477, Portland, Oregon, USA, June 2004 (**CONG INT**).
  2. Ningyue Jiang, Sterling R. Whitaker and Gary K. Maki, "Automated Minimization of BTS Pass Networks", in *Proceedings of the 11th Annual NASA Symposium on VLSI Design*, Coeur d'Alene, Idaho, USA, May 28-29, 2003 (**CONG INT**).
  3. Ricardo Salem Zebulum, Marco Aurélio C. Pacheco and Marley Maria B.R. Vellasco, "Evolutionary Electronics. Automatic Design of Electronic Circuits and Systems by Genetic Algorithms", CRC Press, Boca Raton, Florida, página 170, 2002.
  4. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)
  5. Tatiana Kalganova, "An Extrinsic Function-Level Evolvable Hardware Approach", *Genetic Programming. European Conferece, EuroGP 2000*, Riccardo Poli, Wolfgang Banzhaf, William B. Langdon, Julian Miller, Peter Nordin & Terence C. Fogarty (Eds.), Springer, Berlin, pp. 60–75, April 2000. (**CONG INT**)

- Coello Coello, Carlos A.; Hernández Luna, Erika and Hernández Aguirre, Arturo, "A Comparative Study of Encodings to Design Combinational Logic Circuits Using Particle Swarm Optimization", in Ricardo S. Zebulum, David Gwaltney, Gregory Hornby, Didier Keymeulen, Jason Lohn and Adrian Stoica (editors), *Proceedings of the 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 71–78, IEEE Computer Society, Los Alamitos, California, June 2004.

    1. P.W. Moore and G.K. Venayagamoorthy, "Evolving digital circuits using hybrid particle swarm optimization and differential evolution", *International Journal of Neural Systems*, Vol. 16, No. 3, pp. 163–177, June 2006.
    2. Phillip Moore and Ganesh K. Venayagamoorthy, "Evolving Combinational Logic Circuits Using a Hybrid Quantum Evolution and Particle Swarm Inspired Algorithm", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 97–102, IEEE Computer Society Press, Los Alamitos, California, July 2005.

- **Hernández Luna, Erika; Coello Coello, Carlos A. and Hernández Aguirre, Arturo, "On the Use of a Population-Based Particle Swarm Optimizer to Design Combinational Logic Circuits", in Ricardo S. Zebulum, David Gwaltney, Gregory Hornby, Didier Keymeulen, Jason Lohn and Adrian Stoica (editors), *Proceedings of the 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 183–190, IEEE Computer Society, Los Alamitos, California, June 2004.**

    1. Edgar Galván-López and Katya Rodríguez-Vázquez, "Multiple Interactive Outputs in a Single Tree: An Empirical Investigation", in Marc Ebner, Michael O'Neill, Anikó Ekárt, Leonardo Vanneschi and Anna Isabel Esparcia-Alcázar (editors), *Genetic Programming, 10th European Conference, EuroGP 2007*, pp. 341–350, Springer. Lecture Notes in Computer Science Vol. 4445, Valencia, Spain, April 2007.
    2. Andres Upegui, "Dynamically Reconfigurable Bio-inspired Hardware", PhD thesis, Institut des systèmes informatiques et multimédias, Section d'Informatique, École Polytechnique Fédérale de Lausanne, Lausanne, EPFL, 2006 (**TES DOC**).
    3. P.W. Moore and G.K. Venayagamoorthy, "Evolving digital circuits using hybrid particle swarm optimization and differential evolution", *International Journal of Neural Systems*, Vol. 16, No. 3, pp. 163–177, June 2006.

- **Coello Coello, Carlos A., Hernández Luna, Erika and Hernández Aguirre, Arturo, "Use of Particle Swarm Optimization to Design Combinational Logic Circuits", in Andy M. Tyrell, Pauline C. Haddow and Jim Torresen (Eds), *Evolvable Systems: From Biology to Hardware. 5th International Conference,***

***ICES 2003*, pp. 398–409, Springer, Lecture Notes in Computer Science, Vol. 2606, Trondheim, Norway, March 2003.**

1. Andres Upegui, "Dynamically Reconfigurable Bio-inspired Hardware", PhD thesis, Institut des systèmes informatiques et multimédias, Section d'Informatique, École Polytechnique Fédérale de Lausanne, Lausanne, EPFL, 2006 (**TES DOC**).
2. Boonserm Kaewkamnerdpong and Peter J. Bentley, "Perceptive Particle Swarm Optimisation: An Investigation", in *2005 IEEE Swarm Intelligence Symposium (SIS'05)*, pp. 169–176, IEEE Press, Pasadena, California, June 2005.
3. M.R. Maurya, S.J. Bornheimer, V. Venkatasubramanian and S. Subramaniam, "Reduced-order modelling of biochemical networks: application to the GTPase-cycle signalling module", *IEE Proceedings Systems Biology*, Vol. 152, No. 4, pp. 229–242, December 2005.
4. Andries P. Engelbrecht, "Fundamentals of Computational Swarm Intelligence", John Wiley & Sons, Ltd, 2005, ISBN 978-0-470-09191-3, páginas 41, 197, 283 y 336 (**LIB ING**).
5. W.S. Lau, G. Li, K.H. Lee, K.S. Leung and S.M. Cheang, "Multi-logic-unit processor: A combinational logic circuit evaluation engine for genetic parallel programming", in Maarten Keijzer, Andrea Tettamanzi, Pierre Collet, Jano van Hemert and Marco Tomassini (editors), *Genetic Programming. 8th European Conference, EuroGP 2005*, pp. 167–177, Springer, Lecture Notes in Computer Science Vol. 3447, Lausanne, Switzerland, March 2005.
6. S.M. Cheang, K.H. Lee and K.S. Leung, "Designing optimal combinational digital circuits using a multiple logic unit processor", in Maarten Keijzer, Una-May O'Reilly, Simon M. Lucas, Ernesto Costa and Terence Soule (Eds.), *Genetic Programming, 7th European Conference, EuroGP'2004*, pp. 23–34, Springer, Lecture Notes in Computer Science Vol. 3003, Coimbra, Portugal, April 5-7, 2004 (**CONG INT**).
7. Uthman Salem Al-Saiari, "Digital Circuit Design Through Simulated Evolution", Masters Thesis, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, November 2003 (**TES MAE**).
8. Mostafa Abd-El-Barr, Sadiq M. Sait, Bambang A.B. Sarif and Uthman Al-Saiari, "A Modified Ant Colony Algorithm for Evolutionary Design of Digital Circuits", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 708–715, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

- Toscano Pulido, Gregorio and Coello Coello, Carlos A. "A Constraint-Handling Mechanism for Particle Swarm Optimization", in *2004 Congress on Evolutionary Computation* (CEC'2004), pp. 1396–1403, Vol. 2, IEEE, Portland, Oregon, June 2004.

1. Karin Zielinski and Rainer Laur, "Constrained Single-Objective Optimization Using Particle Swarm Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 1550–1557, IEEE, Vancouver, BC, Canada, July 2006.
2. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
3. J.J. Liang and P.N. Suganthan, "Dynamic Multi-Swarm Particle Swarm Optimizer with a Novel Constraint-Handling Mechanism", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 316–323, IEEE, Vancouver, BC, Canada, July 2006.
4. Leandro dos Santos Coelho and Viviana Cocco Mariani, "An Efficient Particle Swarm Optimization Approach Based on Cultural Algorithm Applied to Mechanical Design", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 3844–3849, IEEE, Vancouver, BC, Canada, July 2006.
5. Karin Zielinski and Rainer Laur, "Stopping Criteria for Constrained Optimization with Particle Swarms", in Bogdan Filipič and Jurij Šilc (editors), *Bioinspired Optimization Methods and their Applications*, pp. 45–54, Jožef Stefan Institute, Ljubljana, Slovenia, October 2006.
6. Christopher K. Monson and Kevin D. Seppi, "Linear Equality Constraints and Homomorphous Mappings in PSO", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 73–80, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005.
7. Angel E. Muñoz Zavala, Arturo Hernández Aguirre and Enrique R. Villa Diharce, "Particle Evolutionary Swarm Optimization with Linearly Decreasing ϵ-Tolerance", in Alexander Gelbukh, Álvaro de Albornoz and Hugo Terashima-Marín (editors), *MICAI 2005: Advances in Artificial Intelligence*, Springer, pp. 641–651, Lecture Notes in Artificial Intelligence Vol. 3789, Monterrey, México, November 2005.
8. Angel E. Muñoz Zavala, Arturo Hernández Aguirre and Enrique R. Villa Diharce, "Constrained Optimization via Particle Evolutionary Swarm Optimization Algorithm (PESO)", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 209–216, Vol. 1, ACM Press, Washington, DC, USA, June 2005, ISBN 1-59593-010-8
9. Angel E. Muñoz Zavala, Arturo Hernández Aguirre and Enrique R. Villa Diharce, "Particle Evolutionary Swarm Optimization Algorithm (PESO)", in Vladimir Estivill-Castro and J. Alfredo Sánchez (editors), *Sixth Mexican International Conference on Computer Science (ENC'05)*, pp. 282–289, IEEE Computer Society Press, Los Alamitos, California, September 2005.

- **Coello Coello, Carlos A.; Hernández Aguirre, Arturo & Buckles, Bill P., "Evolutionary Multiobjective Design of Combinational Logic Circuits", en**

Jason Lohn, Adrian Stoica, Didier Keymeulen & Silvano Colombano (editores), *Proceedings of the Second NASA/DoD Workshop on Evolvable Hardware*, pp. 161–170, IEEE Computer Society, Los Alamitos, California, Julio del 2000.

1. Daniel Roggen, "Multi-Cellular Reconfigurable Circuits: Evolution, Morphogenesis and Learning", PhD thesis, Ecole Polytechnique Fédérale de Lausanne, Switzerland, March 2005 (**TES DOC**).
2. A. Slowik and M. Bialko, "Evolutionary design and optimization of combinational digital circuits with respect to transistor count", *Bulletin of the Polish Academy of Sciences. Technical Sciences*, Vol. 54, No. 4, pp. 437–442, 2006 (**JOUR INT**).
3. Nicolas Jozefowiez, "Modélisation et Résolution Approchée de Problèmes de Tournées Multi-Objectif", PhD thesis, Université des Sciences et Technologies de Lille, France, December 2004 (**TES DOC**).
4. Daniel Roggen, Diego Federici and Dario Floreano, "Evolutionary morphogenesis for multi-cellular systems", *Genetic Programming and Evolvable Machines*, Volume 8, No. 1, pp. 61–96, March 2007 (**JOUR INT**).
5. P.W. Moore and G.K. Venayagamoorthy, "Evolving digital circuits using hybrid particle swarm optimization and differential evolution", *International Journal of Neural Systems*, Vol. 16, No. 3, pp. 163–177, June 2006.
6. Daniel Roggen, Yann Thoma and Eduardo Sanchez, "An Evolving and Developing Cellular Electronic Circuit", in J. Pollack, M. Bedau, P. Husbands, T. Ikemagi and R.A. Watson (editors), *Proceedings of the Ninth International Conference on the Simulation and Synthesis of Living Systems (ALIFE9)*, pp. 33–38, The MIT Press, Cambridge, Massachusetts, USA, 2004 (**CONG INT**).
7. Adam Slowik and Michal Bialko, "Design and Optimization of Combinational Digital Circuits Using Modified Evolutionary Algorithm", in Leszek Rutkowski, Jörg H. Siekmann, Ryszard Tadeusiewicz and Lotfi A. Zadeh (Editors), *Artificial Intelligence and Soft Computing - ICAISC 2004, 7th International Conference. Proceedings*, Springer. Lecture Notes in Computer Science Vol. 3070, pp. 468–473, Zakopane, Poland, June 2004 (**CONG INT**).
8. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).
9. Mostafa Abd-El-Barr, Sadiq M. Sait, Bambang A.B. Sarif and Uthman Al-Saiari, "A Modified Ant Colony Algorithm for Evolutionary Design of Digital Circuits", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, pp. 708–715, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

10. Sérgio G. Araújo, A. Mesquita and Aloysio C.P. Pedroza, "Using Genetic Programming and High Level Synthesis to Design Optimized Datapath", in Andy M. Tyrrell, Pauline C. Haddow and Jim Torresen (Eds.), *Evolvable Systems: From Biology to Hardware. 5th International Conference, ICES 2003*, pp. 434–445, Springer, Lecture Notes in Computer Science, Vol. 2606, Trondheim, Norway, March 2003 (**CONG INT**).

- **Coello Coello, Carlos A. "The use of a multiobjective optimization technique to handle constraints", CIMAF'99, La Habana, Cuba, *Proceedings of the Second International Symposium on Artificial Intelligence, Adaptive Systems*, Editado por Alberto A. Ochoa Rodríguez, Marta R. Soto Ortiz y Roberto Santana Hermida, La Habana, Cuba, pp. 251–256, Marzo de 1999.**

    1. B. Fazlollahi and R. Vahidov, "A method for generation of alternatives by decision support systems", *Journal of Management Information Systems*, Vol. 18, No. 2, pp. 229–250, Fall 2001 (**JOUR INT**).

- **Carlos A. Coello Coello, Alan D. Christiansen and Arturo Hernández Aguirre. "Automated Design of Combinational Logic Circuits Using Genetic Algorithms". *Proceedings of the International Conference on Artificial Neural Nets and Genetic Algorithms*, ICANNGA'97. University of East Anglia, Norwich, England. Edited by D. G. Smith, N. C. Steele and R. F. Albrecht. Springer-Verlag, pp. 335–338, 2-4 April 1997.**

    1. A. Slowik and M. Bialko, "Evolutionary design and optimization of combinational digital circuits with respect to transistor count", *Bulletin of the Polish Academy of Sciences. Technical Sciences*, Vol. 54, No. 4, pp. 437–442, 2006 (**JOUR INT**).
    2. P.W. Moore and G.K. Venayagamoorthy, "Evolving digital circuits using hybrid particle swarm optimization and differential evolution", *International Journal of Neural Systems*, Vol. 16, No. 3, pp. 163–177, June 2006.
    3. Phillip Moore and Ganesh K. Venayagamoorthy, "Evolving Combinational Logic Circuits Using a Hybrid Quantum Evolution and Particle Swarm Inspired Algorithm", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 97–102, IEEE Computer Society Press, Los Alamitos, California, July 2005.
    4. Adam Slowik and Michal Bialko, "Design and Optimization of Combinational Digital Circuits Using Modified Evolutionary Algorithm", in Leszek Rutkowski, Jörg H. Siekmann, Ryszard Tadeusiewicz and Lotfi A. Zadeh (Editors), *Artificial Intelligence and Soft Computing - ICAISC 2004, 7th International Conference. Proceedings*, Springer. Lecture Notes in Computer Science Vol. 3070, pp. 468–473, Zakopane, Poland, June 2004 (**CONG INT**).

5. M. Peysakhov and W.C. Regli, "Using assembly representations to enable evolutionary design of Lego structures", *AIEDAM–Artificial Intelligence for Engineering, Design, Analysis and Manufacturing*, Vol. 17, No. 2, pp. 155–168, April 2003 (**JOUR INT**).
6. Venu G. Gudise and Ganesh K. Venayagamoorthy, "Evolving Digital Circuits Using Particle Swarm", *Proceedings of the INNS-IEEE International Joint Conference on Neural Networks*, pp. 468–472, IEEE Press, Portland, Oregon, USA, July 20-24, 2003 (**CONG INT**).
7. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)
8. Tatiana Kalganova, "Evolving more efficient digital circuits by allowing circuit layout evolution and multi-objective fitness", *The First NASA/DoD Workshop on Evolvable Hardware*, Adrian Stoica, Didier Keymeulen & Jason Lohn (Eds.), IEEE Computer Society Press, Los Alamitos, California, pp. 54–63, July 1999. (**CONG INT**)

- **Alan D. Christiansen, Andrea Dunham Edwards and Carlos A. Coello Coello. "Automated Design of Part Feeders using a Genetic Algorithm". *Proceedings of the 1996 IEEE International Conference on Robotics and Automation*. Minneapolis, Minnesota. Volume 1. pp. 846–851. Abril de 1996.**

1. Reza J. Khakbaz-Nejad, "The Effect of the Interaction of Part Geometry and Vibratory Feeding Parameters on the Feed Rate of Parts in a Vibratory Bowl Feeder", PhD thesis, The Ohio State University, USA, 2003 (**TES DOC**).
2. P.R. Berretty, K. Goldberg, M.H. Overmans and A.F. van der Stappen, "Trap design for vibratory bowl feeders", *International Journal of Robotics Research*, Vol. 20, No. 11, pp. 891–908, November 2001 (**JOUR INT**).
3. M. Moll and M.A. Erdmann, "Manipulation of pose distributions", *International Journal of Robotics Research*, Vol. 21, No. 3, pp. 277–292, March 2002 (**JOUR INT**).
4. S. Akella and M. T. Mason, "Using Partial Sensor Information to Orient Parts", *International Journal of Robotics Research*, Vol. 18, No. 10, pp. 963–997, October 1999 (**JOUR INT**).
5. Tao Zhang, Gordon Smith, Robert-Paul Berretty, Mark Overmars and Ken Goldberg, "The Toppling Graph: Designing Pin Sequences for Part Feeding", *Proceedings of the 2000 IEEE International Conference on Robotics and Automation* (ICRA'00), Vol. 1, pp. 139–146, April 2000 (**CONG INT**).
6. Anne Deirdre Collins, "Configuration Spaces in Robotic Manipulation and Motion Planning", PhD Thesis, Department of Mathematics, Duke University, 2002 (**TES DOC**).

7. M. Moll and M. A. Erdmann, "Uncertainty Reduction Using Dynamics", *Proceedings of the 2000 International Conference on Robotics and Automation* (ICRA'00), pp. 3673–3680, Vol. 4, IEEE, San Francisco, California, EUA, 2000 (**CONG INT**)
8. Robert-Paul Mario Berretty, "Geometric Design of Part Feeders", PhD Thesis, Universiteit Utrecht, Holanda, 2000. (**TES DOC**)
9. Mike Tao Zhang, Ken Goldberg, Gordon Smith, Robert-Paul Beretty and Mark Overmars, "Pin design for part feeding", *Robotica*, Vol. 19, No. 6, pp. 695–702, September 2001. (**JOUR INT**)
10. A. Frank van der Stappen, Robert-Paul Berretty, Ken Goldberg, and Mark H. Overmars. "Geometry and Part Feeding", in H. Bunke, H.I. Christensen, G. Hager, R. Klein (editors) *Sensor Based Intelligent Robots*, Lecture Notes in Computer Science Vol. 2238, pp. 259–281, Springer-Verlag, Berlin, Germany, 2002 (**CONG INT**)
11. Mark Moll and Michael A. Erdmann, "Manipulation of Pose Distributions", en Bruce R. Donald, Kevin M. Lynch & Daniela Rus (Eds), *Algorithmic and Computational Robotics: New Directions*, pp. 127–141, A.K. Peters, 2001 (**CONG INT**). NOTA: Publicado también como Reporte Técnico CMU-CS-00-111, Department of Computer Science, Carnegie Mellon University.
12. Srinivas Akella, Wesley H. Huang, Kevin M. Lynch and Matthew T. Mason. "Parts Feeding on a Conveyor with a One Joint Robot" *Algorithmica*, Vol. 26, No. 3/4, pp. 313–344, 2000. (**JOUR INT**)
13. Dina R. Berkowitz & John Canny. "Designing part feeders using dynamic simulation", *Proceedings of the 1996 IEEE International Conference on Robotics and Automation*. Minneapolis, Minnesota. Volume 1. pp. 1127–1132. Abril de 1996. (**CONG INT**)
14. Dina R. Berkowitz & John Canny. "A Comparison of Real and Simulated Designs for Vibratory Parts Feeding", *Proceedings of the 1997 IEEE International Conference on Robotics and Automation*, Albuquerque, New Mexico, EUA, pp. 2377–2382, Vol. 3, 1997. (**CONG INT**)
15. Brian Vincent Mirtich, *Impulse-based Dynamic Simulation of Rigid Body Systems*, PhD thesis, Computer Science Department, University of California, Berkeley, December, 1996. (**TES DOC**)
16. Robert-Paul Berretty, Ken Goldberg, Lawrence Cheung, Mark H. Overmars, Gordon Smith & A. Frank van der Stappen. "Trap Design for Vibratory Bowl Feeders", *Proceedings of the 1999 IEEE International Conference on Robotics and Automation*, Detroit, Michigan, pp. 2558–2563, Vol. 4, May, 1999. (**CONG INT**)
17. Srinivas Akella. *Robotic Manipulation for Parts Transfer and Orienting: Mechanics, Planning, and Shape Uncertainty*, PhD thesis, The Robotics Institute, Carnegie Mellon University, December 1996. (**TES DOC**)

18. Wesley H. Huang and Matthew T. Mason. "Mechanics for Vibratory Manipulation", *Proceedings of the 1997 IEEE International Conference on Robotics and Automation*, pp. 2391–2396, Vol. 3, Albuquerque, New Mexico, EUA, 1997.(**CONG INT**)
19. Ken Goldberg, Brian Mirtich, Yan Zhuang, John Craig, Brian Carlisle, and John Canny. "Part Pose Statistics: Estimators and Experiments", *IEEE Transactions on Robotics and Automation*, Vol. 15, No. 5, pp. 849–857, October, 1999. (**JOUR INT**)
20. Kevin M. Lynch. "Inexpensive conveyor-based parts feeding", *Assembly Automation Journal*, **19**(3):209–215, October 1999. (**JOUR INT**)
21. Srinivas Akella, Wesley H. Huang, Kevin M. Lynch, and Matthew T. Mason. "Planar Manipulation on a Conveyor with a One Joint Robot", *Robotics Research: The Seventh International Symposium*, pp. 265–276, G. Giralt and G. Hirzinger (editors), Springer-Verlag, Berlin, 1996. (**CAP LIB**)
22. Robert-Paul Berretty, Ken Goldberg, Mark H. Overmars, A.Frank van der Stappen. "Geometric Algorithms for Trap Design", *Proceedings of the 15th Annual ACM Symposium on Computational Geometry*, pp. 95–104, 1999. (**CONG INT**)
23. Brian Mirtich, Yan Zhuang, Ken Goldberg, John Craig, Rob Zanutta, Brian Carlisle & John Canny. "Estimating Pose Statistics for Robotic Part Feeders", *Proceedings of 1996 IEEE International Conference on Robotics and Automation*, pp. 1140–1146, Vol. 2, Minneapolis, Minnesota, April 1996. (**CONG INT**)
24. Kevin M. Lynch. *Nonprehensile Robotic Manipulation: Controllability and Planning*, PhD Thesis, The Robotics Institute, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 1996. (**TES DOC**)
25. Wesley Huang, "Impulsive Manipulation", PhD thesis, The Robotics Institute, Carnegie Mellon University, August 1997. (**TES DOC**)

- Carlos A. Coello Coello, Alan D. Christiansen and Arturo Hernández Aguirre. "Use of Genetic Algorithms for Multiobjective Optimization of Counterweight Balancing of Robot Arms". EXPERSYS'95. *The Seventh International Conference on Artificial Intelligence and Expert Systems Applications*. San Francisco, California, E.E.U.U., pp. 243–248, 9 al 10 de noviembre de 1995.

    1. David A. Van Veldhuizen *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

- **Carlos A. Coello Coello. "Using a Min-Max Method to solve Multiobjective Optimization Problems with Genetic Algorithms". *IBERAMIA'98*. Lisboa,**

Portugal. Lecture Notes in Computer Science, Springer-Verlag, pp. 303–314, Octubre de 1998.

1. Nicolas Jozefowiez, "Modélisation et Résolution Approchée de Problèmes de Tournées Multi-Objectif", PhD thesis, Université des Sciences et Technologies de Lille, France, December 2004 (**TES DOC**).
2. Clarisse Dhaenens-Flipo, "Optimisation Combinatoire Multi-Objectif: Apport des Méthodes Coopératives et Contribution à L'Extraction de Connaissances¡/A¿¡/b¿, PhD thesis, Université des Sciences et Technologies de Lille, Lille, France, October 2005 (**TES DOC**).
3. Matthieu Basseur, "Conception d'Algorithmes Coopératifs Pour L'Optimisation Multi-Objectif: Application aux Problèmes d'Ordonnancement de Type Flow-Shop", PhD thesis, Université des Sciences et Technologies de Lille, France, 2005 (in French) (**TES DOC**).
4. D.F. Jones, S.K. Mirrazavi, and M. Tamiz, "Multi-objective meta-heuristics: An overview of the current state-of-the-art", *European Journal of Operational Research*, Vol. 137, No. 1, pp. 1–9, February 2002. (**JOUR INT**)
5. David A. Van Veldhuizen *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

- Carlos A. Coello Coello, Alan D. Christiansen and Arturo Hernández Aguirre. "Multiobjective Design Optimization of Counterweight Balancing of a Robot Arm Using Genetic Algorithms". *Proceedings of the Seventh International Conference on Tools with Artificial Intelligence*, TAI'95. IEEE Computer Society Press, páginas 20–23. Herndon, Virginia, E.E.U.U. 5 al 8 Noviembre de 1995.

  1. Alain Berro, "Optimisation Multiobjectif et Stratégies d'Evolution en Environnement Dynamique", PhD thesis, Université des Sciences Sociales Toulouse I, Toulouse, Francia, Diciembre de 2001 (**TES DOC**).
  2. Kalyanmoy Deb, "Multi-Objective Optimization using Evolutionary Algorithms", John Wiley & Sons, Chichester, UK, 2001, pag. 430. (**LIB ING**)
  3. Lina Maribel Collí Rivas, "Algoritmos Genéticos y su Aplicación a un Problema con Objetivos Múltiples", Facultad de Matemáticas, Licenciatura en Ciencias de la Computación, Universidad Autónoma de Yucatán, Mérida, Yucatán, Febrero de 1998. (**TES LIC**)
  4. David A. Van Veldhuizen *Multiobjective Evolutionary Algorithms: Classifications, Analyses, and New Innovations*, PhD Thesis, Department of Electrical and Computer Engineering. Graduate School of Engineering. Air Force Institute of Technology, Wright-Patterson AFB, Ohio, May, 1999. (**TES DOC**)

5. Alberto Herreros López, "Diseño de Controladores Robustos Multiobjetivo por Medio de Algoritmos Genéticos", Tesis Doctoral, Departamento de Ingeniería de Sistemas y Automática, Universidad de Valladolid, Septiembre del 2000. (**TES DOC**)

- **Carlos A. Coello Coello. "An Updated Survey of Evolutionary Multiobjective Optimization Techniques: State of the Art and Future Trends",** ***1999 Congress on Evolutionary Computation (CEC'99)*****, Washington, D.C., USA, Vol. 1, pp. 3–13, IEEE Service Center, July 1999.**

  1. Wangshu Yao, Chen Shifu and Chen Zhaoqian, "SDMOGA: A New Multiobjective Genetic Algorithm Based on Objective Space Divided", in Irwin King, Jun Wang, Laiwan Chan and DeLiang L. Wang (editors), *Neural Information Processing, 13th International Conference, ICONIP 2006, Part III*, pp. 754–762, Springer-Verlag. Lecture Notes in Computer Science Vol. 4234, Hong Kong, China, October 2006.
  2. Ningchuan Xiao, David A. Bennett and Marc P. Armstrong, "Interactive evolutionary approaches to multiobjective spatial decision making: A synthetic review", *Computers Environment and Urban Systems*, Vol. 31, No. 3, pp. 232–252, May 2007.
  3. A. Dietz, C. Azzaro-Pantel, L. Pibouleau and S. Domenech, "Optimal design of batch plants under economic and ecological considerations: Application to a biochemical batch plant", *Mathematical and Computer Modelling*, Vol. 46, Nos. 1–2, pp. 109–123, July 2007.
  4. Yang Zheng and Peter I. Rockett, "Feature Extraction Using Multi-Objective Genetic Programming", in Yaochu Jin (Editor), *Multi-Objective Machine Learning*, pp. 75–99, Springer, Berlin, 2006 (**CAP LIB**).
  5. Tero Kangas, "Methods and Implementations for Automated System on Chip Architecture Exploration", PhD thesis, Tampere University of Technology, Finland, 2006 (**TES DOC**).
  6. Susanna Mocci, "Modelli e Algoritmi Multiobiettivo Per La Pianificazione Delle Reti Attive Di Distribuzione", PhD thesis, Dipartimento di Ingegneria Elettrica ed Elettronica, Università Degli Studi di Cagliari, Italy, Febrero, 2005 (**TES DOC**).
  7. Philip McMinn, "Evolutionary Search for Test Data in the Presence of State Behaviour", PhD thesis, Department of Computer Science, University of Sheffield, January 2005 (**TES DOC**).
  8. Raffi Roupen Kamalian, "Evolutionary Synthesis of MEMS", PhD thesis, Mechanical Engineering, University of California, Berkeley, USA, 2004 (**TES DOC**).
  9. Ying Zhang, "MEMS Design Synthesis Based on Hybrid Evolutionary Computation", PhD thesis, Civil and Environmental Engineering, University of California, Berkeley, USA, 2006 (**TES DOC**).

10. Yao Wang and Mark Wineberg, "Estimation of evolvability genetic algorithm and dynamic environments", *Genetic Programming and Evolvable Machines*, Vol. 7, No. 4, pp. 355–382, December 2006.

11. Sameer Singh, Andrew Payne and Roman Kingsland, "Modelling the human visual process by evolving images from noise", in N. Zheng, X. Jiang and X. Lan (Editors), *Advances in Machine Vision, Image Processing, and Pattern Analysis (IMICPAS 2006)*, Springer-Verlag, pp. 251–259, Lecture Notes in Computer Science Vol. 4153, 2006.

12. Daniele Calisi, Alessandro Farinelli, Luca Iocchi, Daniele Nardi and Francesca Pucci, "Multi-Objective Autonomous Exploration in a Rescue Environment", in *Third International Workshop on Synthetic Simulation and Robotics to Mitigate Earthquake Disaster (SRMED 2006)*, pp. 36–41, Bremen, Germany, June 2006 (**CONG INT**).

13. J.G. Villegas, F. Palacios and A.L. Medaglia, "Solution methods for the bi-objective (cost-coverage) unconstrained facility location problem with an illustrative example", *Annals of Operations Research*, Vol. 147, No. 1, pp. 109–141, October 2006.

14. Viktoria Neimane, "On Development Planning of Electricity Distribution Networks", PhD thesis, Royal Institute of Technology, Department of Electrical Engineering, Electric Power Systems, Stockolm, Sweden, 2001 (**TES DOC**).

15. A. Konak, D.W. Coit and A.E. Smith, "Multi-objective optimization using genetic algorithms: A tutorial", *Reliability Engineering & System Safety*, Vol. 91, No. 9, pp. 992–1007, September 2006.

16. Peter Michael Hollingsworth, "Requirements Controlled Design: A Method for Discovery of Discontinuous System Boundaries in the Requirements Hyperspace", PhD thesis, Georgia Institute of Technology, School of Aerospace Engineering, March 2004 (**TES DOC**).

17. Fei Su and Krishnendu Chakrabarty, "Module Placement for Fault-Tolerant Microfluidics-Based Biochips", *ACM Transactions on Design Automation of Electronic Systems*, Vol. 11, No. 3, pp. 682–710, July 2006.

18. X.Y. Tong, G.B. Cai, Y.T. Zheng and J. Fang, "Optimization of system parameters for gas-generator engines", *Acta Astronautica*, Vol. 59, Nos. 1–5, pp. 246–252, July-September 2006.

19. M. Rajapakse, B. Schmidt and V.L. Brusic, "Multi-objective evolutionary algorithm for discovering peptide binding motifs", *Applications of Evolutionary Computing, Proceedings*, pp. 149–158, Springer, Lecture Notes in Computer Science Vol. 3907, 2006.

20. Daniel W. Boeringer and Douglas H. Werner, "Bézier representations for the multiobjective, optimization of conformal array amplitude weights", *IEEE Transactions on Antennas and Propagation*, Vol. 54, No. 7, pp. 1964–1970, July 2006.

21. C. Voudouris, G. Owusu, R. Dorne, C. Ladde and B. Virginas, "ARMS: An automated resource management system for British Telecommunications plc", *European Journal of Operational Research*, Vol. 171, No. 3, pp. 951–961, June 16, 2006.

22. Benoit Bagot, "The Harmonic Decision Matrix: a Subtle Model of the Natural Neuron", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 1539–1546, Vol. 2, IEEE Service Center, Edinburgh, Scotland, September 2005.

23. John Rieffel and Jordan Pollack, "Crossing the Fabrication Gap: Evolving Assembly Plans to Build 3-D Objects", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 529–536, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

24. John Rieffel and Jordan Pollack, "Automated Assembly as Situated Development: Using Artificial Ontogenies to Evolve Buildable 3-D Objects", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 99–106, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).

25. John Rieffel and Jordan Pollack, "Evolving Assembly Plans for Fully Automated Design and Assembly", in Jason Lohn, David Gwaltney, Gregory Hornby, Ricardo Zebulum, Didier Keymeulen and Adrian Stoica (editors), *2005 NASA/DoD Conference on Evolvable Hardware*, pp. 165–170, IEEE Computer Society Press, Los Alamitos, California, July 2005.

26. G. Carpinelli, G. Celli, S. Mocci, F. Pilo and A. Russo, "Optimisation of embedded generation sizing and siting by using a double trade-off method", *IEE Proceedings–Generation Transmission and Distribution*, Vol. 152, No. 4, pp. 503–513, July 2005.

27. J. McCall, "Genetic algorithms for modelling and optimisation", *Journal of Computational and Applied Mathematics*, Vol. 184, No. 1, pp. 205–222, December 1, 2005.

28. Rodrigo Evangelista de Castro, "Otimização de Estruturas Com Multi-Objetivos via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, August 2001 (in Portuguese) (**TES DOC**).

29. G. Celli, E. Ghiani, S. Mocci and F. Pilo, "A multiobjective evolutionary algorithm for the sizing and siting of distributed generation", *IEEE Transactions on Power Systems*, Vol. 20, No. 2, pp. 750–757, May 2005 (**JOUR INT**).

30. M. Farina and P. Amato, "Linked interpolation-optimization strategies for multicriteria optimization problems", *Soft Computing–A Fusion of Foundations, Methodologies and Applications*, Springer-Verlag, Vol. 9, No. 1, pp. 54–65, January 2005.

31. Hiroyuki Morita, Xavier Gandibleux and Naoki Katoh, "Experimental Feedback on Biobjective Permutation Scheduling Problems Solved with a Popu-

lation Heuristic", *Foundations of Computing and Decision Sciences*, Polonia, Vol. 26, No. 1, pp. 23–50, 2001 (**JOUR INT**).

32. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).
33. Yaochu Jin, Michael Hüsken, Markus Olhofer and Bernhard Sendhoff, "Neural Networks for Fitness Approximation in Evolutionary Optimization", in Yaochu Jin (editor), *Knowledge Incorporation in Evolutionary Computation*, Springer, pp. 281–306, Berlin Heidelberg, 2005, ISBN 3-540-22902-7 (**CAP LIB**).
34. Tatsuya Okabe, "Evolutionary Multi-Objective Optimization - On the Distribution of Offspring in Parameter and Fitness Space -", PhD thesis, Bielefeld University, Germany, 2004 (**TES DOC**).
35. Choong K. Oh and Gregory J. Barlow, "Autonomous Controller Design for Unmanned Aerial Vehicles using Multi-objective Genetic Programming", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 2, pp. 1538–1545, Portland, Oregon, USA, June 2004 (**CONG INT**).
36. Jinhua Zheng, Zhongzhi Shi, Charles X. Ling and Yong Xie, "Some Discussions about MOGAs: Individual Relations, Non-dominated Set, and Application on Automatic Negotiation", in *2004 Congress on Evolutionary Computation (CEC'2004)*, IEEE Service Center, Vol. 1, pp. 706–712, Portland, Oregon, USA, June 2004 (**CONG INT**).
37. Giuseppe Ascia, Vincenzo Catania and Maurizio Palesi, "A GA-Based Design Space Exploration Framework for Parameterized System-On-A-Chip Platforms", *IEEE Transactions on Evolutionary Computation*, Vol. 8, No. 4, pp. 329–346, August 2004 (**JOUR INT**).
38. Antonio J. Rivera, Julio Ortega e Ignacio Rojas, "Predicción de Series Temporales Mediante la Coevolución de una Población de Funciones Base", en C. Hervás, N. García, F.J. Martínez, D. Ortiz y S. Ventura (editores), *Actas del III Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 04)*, pp. 585–592, Universidad de Córdoba, Córdoba, España, febrero de 2004, ISBN 84-688-4224-9 (**CONG INT**).
39. John Rieffel and Jordan Pollack, "The Emergence of Ontogenic Scaffolding in a Stochastic Development Environment", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 804–815, Seattle, Washington, USA, June 2004 (**CONG INT**).
40. Y.B. Yun, H. Nakayama and M. Arakawa, "Multiple criteria decision making with generalized DEA and an aspiration level method", *European Jour-*

nal of Operational Research, Vol. 158, No. 3, pp. 697–706, November 1, 2004 (**JOUR INT**).

41. A. Farhang-Mehr and S. Azarm, "An information-theoretic entropy metric for assessing multi-objective optimization solution set quality", *Journal of Mechanical Design*, Vol. 125, No. 4, pp. 655–663, December 2003 (**JOUR INT**).
42. Dirk Büche, "Multi-Objective Evolutionary Optimization of Gas Turbine Components", PhD thesis, Swiss Federal Institute of Technology. Zürich, Switzerland, 2003 (**TES DOC**).
43. Ali Farhang-Mehr, "Entropy Approach to Meta-Modeling, Multi-Objective Genetic Algorithm, and Quality Assessment of Solution Sets for Design Optimization", PhD thesis, Department of Mechanical Engineering, University of Maryland, College Park, Maryland, USA, 2003 (**TES DOC**).
44. Gregory John Barlow, "Design of Autonomous Navigation Controllers for Unmanned Aerial Vehicles using Multi-Objective Genetic Programming", Masters thesis, North Carolina State University, Raleigh, North Carolina, USA, March 2004 (**TES MAES**).
45. Jesus Dario Landa Silva, "Metaheuristic and Multiobjective Approaches for Space Allocation", PhD thesis, School of Computer Science and Information Technology, University of Nottingham, UK, November 2003 (**TES DOC**).
46. Carlos Cotta and Pablo Moscato, "Evolutionary Computation: Challenges and Duties", in Anil Menon (editor), *Frontiers of Evolutionary Computation*, Kluwer Academic Publishers, Boston, 2004, ISBN 1-4020-7524-3, p. 68 (**CAP LIB**).
47. José Ruben Felipe Lagunas Jiménez, "Sintonización de controladores PID mediante un algoritmo genético multiobjetivo (NSGA-II)", Tesis Doctoral, Departamento de Control Automático, CINVESTAV-IPN, México, D.F., Abril de 2004 (**TES DOC**).
48. C. Goh and Y. Li, "Multi-Objective Synthesis of CMOS Operational Amplifiers using a Hybrid Genetic Algorithm", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 214–218, Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).
49. Andrew Lewis and David Abramson, "An Evolutionary Programming Algorithm for Multi-Objective Optimisation", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 3, pp. 1926–1932, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).
50. Bosun Kim, "Evaluation of Non-Dominated Solution Sets for Multiple Objective Optimization Problems", PhD thesis, Arizona State University, August 2003 (**TES DOC**).

51. Cristóbal Romero, Sebastián Ventura, Paul De Bra and Carlos de Castro, "Discovering Prediction Rules in AHA! Courses", in Peter Brusilovsky, Albert T. Corbett and Fiorella de Rosis (Eds.), *Proceedings of the 9th International Conference on User Modeling, UM 2003*, pp. 25–34, Springer-Verlag, Lecture Notes in Computer Science, Vol. 2702, Johnstown, Philadelphia, USA, June 2003 (**CONG INT**).

52. S.U. Guan and S. Zhang, "Incremental evolution of cellular automata for random number generation", *International Journal of Modern Physics C*, Vol. 14, No. 7, pp. 881–896, September 2003 (**JOUR INT**).

53. B. Virginas, C. Voudouris, G. Owusu and G. Anim-Ansah, "ARMS Collaborator - intelligent agents using markets to organise resourcing in modern enterprises", *BT Technology Journal*, Vol. 21, No. 4, pp. 59–64, October 2003 (**JOUR INT**).

54. W. Matthew Carlyle, John W. Fowler, Esma S. Gel, and Bosun Kim, "Quantitative Comparison of Approximate Solution Sets for Bi-criteria Optimization Problems", *Decision Sciences*, Vol. 34, No. 1, pp. 63–82, Winter 2003 (**JOUR INT**).

55. A.J. Rivera, J. Ortega, I. Rojas and M.J. del Jesus, "Co-evolutionary algorithm for RBF by self-organizing population of neurons", in *Computational Methods in Neural Modeling, Part 1*, Springer, Lecture Notes in Computer Science, Vol. 2686, pp. 470–477, 2003 (**CONG INT**).

56. A.J. Rivera, J. Ortega and A. Prieto, "Design of RBF Networks by Cooperative/Competitive Evolution of Units", in Věra Kurková, Nigel C. Steele, Roman Neruda and Miroslav Kárný (editors), *Artificial Neural Nets and Genetic Algorithms. Proceedings of the International Conference in Prague, Czech Republic*, pp. 375–378, Springer, Wien, 2001 (**CONG INT)**.

57. Ikki Ohmukai, Hideaki Takeda and Mitsunori Miki, "A Proposal of the Person-centered Approach for Personal Task Management", in *Proceedings of the 2003 Symposium on Applications and the Internet*, pp. 234–240, IEEE, Orlando, Florida, January 2003 (**CONG INT**).

58. Dirk Büche, Sibylle Müller and Petro Koumoutsakos, "Self-Adaptation for Multi-objective Evolutionary Algorithms", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 267–281, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

59. G. Renner and A. Ekart, "Genetic Algorithms in Computer Aided Design", *Computer-Aided Design*, Vol. 35, No. 8, pp. 709–726, July 2003 (**JOUR INT**).

60. A. Farhang-Mehr and S. Azarm, "Entropy-based multi-objective genetic algorithm for design optimization", *Structural and Multidisciplinary Optimization*, Vol. 24, No. 5, pp. 351–361, November 2002 (**JOUR INT**).

61. D. Büche, P. Stoll, R. Dornberger and P. Koumoutsakos, "Multiobjective evolutionary algorithm for the optimization of noisy combustion processes", *IEEE Transactions on Systems, Man, and Cybernetics Part C—Applications and Reviews*, Vol. 32, No. 4, pp. 460–473, November 2002 (**JOUR INT**).
62. Sheng-Uei Guan and Shu Zhang, "An Evolutionary Approach to the Design of Controllable Cellular Automata Structure for Random Number Generation", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 1, pp. 23–36, February 2003 (**JOUR INT**).
63. Antonio J. Rivera, Julio Ortega, Ignacio Rojas y María J. del Jesús, "Optimización de Redes de RBFs Mediante Cooperación-Competición de Neuronas y Algoritmos de Minimización de Error", en *Actas del II Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados (MAEB 03)*, Gijón,España, pp. 499–506, Febrero de 2003, ISBN 84-607-65-26-1 (**CONG INT**).
64. Shinya Watanabe, Tomoyuki Hiroyasu and Mitsunori Miki, "Parallel Evolutionary Multi-Criterion Optimization for Block Layout Problems", en *2000 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2000)*, pp. 667–673, 2000 (**CONG INT**).
65. Y.C. Jin, M. Olhofer and B. Sendhoff, "A framework for evolutionary optimization with approximate fitness functions", *IEEE Transactions on Evolutionary Computation*, Vol. 6, No. 5, pp. 481–494, October 2002 (**JOUR INT**).
66. Ricardo Concilio and Fernando J. Von Zuben, "Uma Abordagem Evolutiva para Generação Automática de Turnos Completos em Torneios", *Controle & Automação*, Vol. 13, No. 2, pp. 105–122, 2002, ISSN 0103-1759 (**JOUR INT**).
67. Grzegorz Dobrowolski and Marek Kisiel-Dorohinicki, "Management of evolutionary MAS for multiobjective optimization", in *International Union of Theoretical and Applied Mechanics Symposium on Evolutionary Methods in Mechanics*, pp. 17–18, Cracow, Polonia, Septiembre de 2002 (**CONG INT**).
68. S.C. Esquivel, S.W. Ferrero and R.H. Gallard, "Parameter settings and representations in Pareto-based optimization for job shop scheduling", *Cybernetics and Systems*, Vol. 33, No. 6, pp. 559–578, September 2002 (**JOUR INT**).
69. Takanori Kiyota, Yasutaka Tsuji and Eiji Kondo, "New Multiobjective Fuzzy Optimization Method and Its Application", *Proceedings of the 2000 American Control Conference*, Vol. 6, pp. 4224–4228, Chicago, Illinois, IEEE, June 2000 (**CONG INT**).
70. Kiyoharu Tagawa, Noboru Wakabayashi, Kenji Kanesige and Hiromasa Haneda, "A New Genetic Algorithm based on Anti-Darwinism for Multi-Objective Part-Tool Grouping Problem", *Proceedings of the 2000 IEEE International Symposium on Industrial Electronics (ISIE'2000)*, Vol. 2, pp. 782–787, IEEE, 2000 (**CONG INT**).

71. Francisco de Toro, Julio Ortega, Javier Fernández and Antonio Díaz, "PSFGA: A Parallel Genetic Algorithm for Multiobjective Optimization", in F. Vajda and N. Podhoszki (eds), *10th Euromicro Workshop on Parallel, Distributed and Network-based Processing*, pp. 384–391, IEEE, 2002 (**CONG INT**).

72. S.C. Esquivel, S.W. Ferrero, and R. H., Gallard, "Upgrading Evolutionary algorithms Through Multiplicity for Multiobjective Optimization in Job Shop Scheduling Problems", *VII Congreso Argentino de Ciencias de la Computación (CACIC)*, Vol II, pp. 1307–1318, El Calafate, Argentina, Octubre 2001 (**CONG INT**).

73. Francisco Ortiz Jr. and James R. Simpson, "A Genetic Algorithm with a Modified Desirability Function Approach to Multiple Response Optimization", *Institute of Industrial Engineers Annual Conference*, Orlando, Florida, ISBN 0-89806-263-2, 2002 (**CONG INT**).

74. Marco Farina, "Cost-effective Evolutionary Strategies for Pareto Optimal Front Approximation in Multiobjective Shape Design Optimization of Electromagnetic Devices", PhD Thesis, Department of Electrical Engineering, University of Pavia, Italy, 2001 (**TES DOC**).

75. Hugo Duncan, Gerard Leconte and Peter Utiger, "Using Genetic Algorithms in Industry – Art or Science?", en Alwyn Barry (editor), *2002 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 211–214, AAAI, New York, July 2002 (**CONG INT**).

76. Geoff Leyland, "Multi-Objective Optimisation Applied to Industrial Energy Problems", PhD Thesis, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, May 2002 (**TES DOC**).

77. Boris Naujoks, Werner Haase, Jörg Ziegenhirt and Thomas Bäck. "Multi Objective Airfoil Design using Single Parent Populations", in E.Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A.C. Schultz, J. F. Miller, E. Burke, and N. Jonoska (editors) *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002)*, pp. 1156–1163, Morgan Kaufmann Publishers, San Francisco, California, July 2002 (**CONG INT**).

78. Hirotaka Nakayama, Masao Arakawa and Ye Boon Yu, "Data Envelopment Analysis in Multicriteria Decision Making", in Matthias Ehrgott and Xavier Gandibleux (editors), *Multiple Criteria Optimization: State of the Art Annotated Bibliographic Surveys*, pp. 333–368, Kluwer Academic Publishers, Boston, 2002 (**CAP LIB**).

79. Tapabrata Ray and Kang Tai, "An Evolutionary Algorithm with a Multilevel Pairing Strategy for Single and Multiobjective Optimization", *Foundations of Computing and Decision Sciences*, Vol. 26, 2001, pp. 75–98, 2001 (**JOUR INT**)

80. Marek Kisiel-Dorohinicki and Krzysztof Socha, "Crowding Factor in Evolutionary Multi-Agent System for Multiobjective Optimization", in Hamid

R. Arabnia (editor), *Proceedings of the International Conference on Artificial Intelligence (IC-AI'2001)*, pp. 695–700, CSREA Press, Las Vegas, Nevada, June 2001 (**CONG INT**).

81. Kiyoharu Tagawa, Noboru Wakabayashi, Hiromasa Haneda and Katsumi Inoue, "An Imanishism-based Genetic Algorithm for sampling various Pareto-optimal solutions: An application to the multiobjective resource division problem", *Electrical Engineering in Japan*, Vol. 139, No. 2, pp. 23–35, April 2002 (**JOUR INT**)
82. Kiam Heong Ang, Gregory Chong and Yun Li, "Preliminary Statement on the Current Progress of Multi-Objective Evolutionary Algorithm Performance Measurement", *Congress on Evolutionary Computation (CEC'2002)*, Volume 2, pp. 1139–1144, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).
83. M. Farina, "A Neural Network Based Generalized Response Surface Multiobjective Evolutionary Algorithm", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 956–961, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).
84. Krzysztof Socha and Marek Kisiel-Dorohinicki, "Agent-based Evolutionary Multiobjective Optimisation", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 109–114, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).
85. Tapabrata Ray and K.M. Liew, "A Swarm Metaphor for Multiobjective Design Optimization", *Engineering Optimization*, Vol. 34, No. 2, pp. 141–153, March 2002 (**JOUR INT**).
86. K.C. Giannakoglou, "Design of optimal aerodynamic shapes using stochastic optimization methods and computational intelligence", *Progress in Aerospace Sciences*, Vol. 38, No. 1, pp. 43–76, January 2002 (**JOUR INT**).
87. Y.B. Yun, H. Nakayama, T. Tanino and M. Arakawa, "Generation of Efficient Frontiers in Multi-Objective Optimization Problems by Generalized Data Envelopment Analysis", *European Journal of Operational Research*, Vol. 129, No. 3, pp. 586–595, March 2001 (**JOUR INT**).
88. Christos Emmanouilidis and Andrew Hunter, "A Comparison of Crossover Operators in Neural Network Feature Selection with Multiobjective Evolutionary Algorithms", *GECCO-2000 Workshop on Evolutionary Computation in the Development of Artificial Neural Networks*, pp. 58–60, Las Vegas, Nevada, USA, July 2000. (**CONG INT**)
89. Antonio J. Rivera, Julio Ortega, M. José del Jesus y Jesús González, "Aproximación de funciones con evolución difusa y competición de RBFs", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 507–514, 2002, ISBN 84-607-3913-9. (**CONG INT**)

90. Chris Lucas, "Value Metascience and Synergistic Choice", *5th International Complex Systems Conference*, pp. 53–87, New Zealand Institute for Crop and Food Research, New Zealand, November 2000. (**CONG INT**)

91. Kiam Heong Ang and Yun Li, "Multi-Objective Benchmark Studies for Evolutionary Computation", *2001 Genetic and Evolutionary Computation Conference. Workshop Program*, San Francisco, California, pp. 393–396, July 2001. (**CONG INT**)

92. Xunxue Cui, Miao Li, and Tingjian Fang, "Study of Population Diversity of Multiobjective Evolutionary Algorithm Based on Immune and Entropy Principles", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 1316–1321, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

93. Michael Kirley, "MEA: A metapopulation evolutionary algorithm for multi-objective optimisation problems", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 2, pp. 949–956, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

94. Yaochu Jin, Markus Olhofer & Bernhard Sendhoff, "Managing Approximate Models in Evolutionary Aerodynamic Design Optimization", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 1, pp. 592–599, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)

95. James Kennedy and Russell C. Eberhart, *Swarm Intelligence*, Morgan Kaufmann Publishers, San Francisco, 2001, pag. 138. (**LIB ING**)

96. A.K. Molyneuaux, G.B. Leyland & D. Favrat, "A New, Clustering Evolutionary Multi-Objective Optimisation Technique", *Proceedings of the Third International Symposium on Adaptive Systems. Evolutionary Computation & Probabilistic Graphics Models*, Institute of Cybernetics, Mathematics and Physics, pp. 41–47, Havana, Cuba, March 19–23, 2001 (**CONG INT**).

97. Renio Díaz and Alejandro Rosete Suárez, "A Study of the Capacity of the Stochastic Hill Climbing to Solve Multi-Objective Problems", *Proceedings of the Third International Symposium on Adaptive Systems. Evolutionary Computation & Probabilistic Graphics Models*, Institute of Cybernetics, Mathematics and Physics, pp. 37–40, Havana, Cuba, March 19–23, 2001 (**CONG INT**).

98. Anikó Ekárt & S.Z. Németh, "Selection Based on the Pareto Nondomination Criterion for Controlling Code Growth in Genetic Programming", *Genetic Programming and Evolvable Machines*, Vol. 2, No. 1, pp. 61–73, March 2001. (**JOUR INT**)

99. Kiam Heong Ang, Yun Li & Kay Chen Tan, "Multi-Objective Benchmark Functions and Benchmark Studies for Evolutionary Computation", *Proceedings of the International Conference on Computational Intelligence for Modelling Control and Automation (CIMCA'2001)*, Las Vegas, Nevada, pp. 132–139, July 2001 (**CONG INT**).

100. Andrei Petrovski & John McCall, "Multi-objective Optimisation of Cancer Chemotherapy Using Evolutionary Algorithms", en Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (Eds.), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Zurich, Suiza, pp. 531–545, Marzo de 2001. (**CONG INT**)

101. Tatiana G. Kalganova, *Evolvable Hardware Design of Combinational Logic Circuits*, PhD Thesis, Napier University, Edinburgh, Scotland, May 2000. (**TES DOC**)

102. Eckart Zitzler. *Evolutionary Algorithms for Multiobjective Optimization: Methods and Applications*, PhD Thesis, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, November 1999. (**TES DOC**)

103. Tomoyuki Hiroyasu, Mitsunori Miki and Sinya Watanabe. "Divided Range Genetic Algorithms in Multiobjective Optimization Problems", *Proceedings of International Workshop on Emergent Synthesis*, Kobe, Japan, pp. 57–66, December 1999. (**CONG INT**)

104. Joshua D. Knowles & David Corne. "Local Search, Multiobjective Optimization and the Pareto Archived Evolution Strategy", In *Proceedings of the Third Australia-Japan Joint Workshop on Intelligent and Evolutionary Systems*, pp. 209–216, 1999. (**CONG INT**)

105. C. Emmanouilidis; A. Hunter & J. MacIntyre. "A Multiobjective Evolutionary Setting for Feature Selection and a Commonality-Based Crossover Operator", In *2000 Congress on Evolutionary Computation*, pp. 309–316, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

106. Tomoyuki Hiroyasu; Mitsunori Miki and Sinya Watanabe. "The New Model of Parallel Genetic Algorithm in Multi-Objective Optimization Problems—Divided Range Multi-Objective Genetic Al-gorithm—", In *2000 Congress on Evolutionary Computation*, pp. 333–340, Volume 1, IEEE Press, Piscataway, New Jersey, July 2000. (**CONG INT**)

107. Chris Lucas. "Complexity Philosophy as a Computing Paradigm", In *Self-Organising Systems—Future Prospects for Computing Workshop*, Manchester Conference Centre, University of Manchester, England, October 1999. (**CONG INT**)

108. Ricardo Szmit & Amnon Barak. "Evolution Strategies for a Parallel Multi-Objective Genetic Algorithm", In Darrell Whitley et al. (editors), *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2000)*, pp. 227–234, Morgan Kaufmann Publishers, San Francisco, California, July 2000 (**CONG INT**).

109. Setsuya Kurahashi & Takao Terano. "A Genetic Algorithm with Tabu Search for Multimodal and Multiobjective Function Optimization", In Darrell Whitley et al. (editors), *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2000)*, pp. 291–298, Morgan Kaufmann Publishers, San Francisco, California, July 2000 (**CONG INT**).

110. Yaochu Jin, Markus Olhofer & Bernhard Sendhoff. "On Evolutionary Optimization with Approximate Fitness Functions", In Darrell Whitley et al. (editors), *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2000)*, pp. 786–793, Morgan Kaufmann Publishers, San Francisco, California, July 2000 (**CONG INT**).

- **Carlos A. Coello Coello, "Self-Adaptive Penalties for GA-based optimization", *1999 Congress on Evolutionary Computation*, Washington, D.C., USA, Vol. 1, pp. 573–580, IEEE Service Center, July 1999.**

1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).
2. X.L. Zhu, H.G. Wang, M.Y. Zhao and J.P. Zhou, "A closed loop algorithms based on chaos theory for global optimization", *Advances in Natural Computation, Part 3, Proceedings*, Springer, pp. 727–740, Lecture Notes in Computer Science Vol. 3612, 2005.
3. K.E. Parsopoulos and M.N. Vrahatis, "Unified Particle Swarm Optimization for solving constrained engineering optimization problems", *Advances in Natural Computation, Pt. 3, Proceedings*, Springer, pp. 582–591, Lecture Notes in Computer Science Vol. 3612, 2005.
4. Rodrigo Evangelista de Castro, "Otimização de Estruturas Com Multi-Objetivos via Algoritmos Genéticos", PhD thesis, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, August 2001 (in Portuguese) (**TES DOC**).
5. Jung-Fa Tsai, "Global optimization of nonlinear fractional programming problems in engineering design", *Engineering Optimization*, Vol. 37, No. 4, pp. 399–409, June 2005 (**JOUR INT**).
6. P. Kokol, P. Povalej, M. Lenic and G. Stiglic, "Building classifier cellular automata", *Cellular Automata. 6th International Conference on Cellular Automata for Research and Industry, ACRI 2004*, Holanda, Springer-Verlag, Lecture Notes in Computer Science Vol. 3305, pp. 823–830, 2004 (**CONG INT**).
7. W.H. Wu and C.Y. Lin, "The second generation of self-organizing adaptive penalty strategy for constrained genetic search", *Advances in Engineering Software*, Inglaterra, Vol. 35, No. 12, pp. 815–825, December 2004 (**JOUR INT**).
8. P. Povalej, M. Lenic, G. Stiglic, T. Welzer and P. Kokol, "Improving classification accuracy using cellular automata", in *Proceedings of Knowledge-Based Intelligent Information and Engineering Systems*, Part 2, Springer-Verlag, Lecture Notes in Computer Science Vol. 3214, pp. 1025–1031, 2004 (**CONG INT**).
9. C.Y. Lin and W.H. Wu, "Self-organizing adaptive penalty strategy in constrained genetic search", *Structural and Multidisciplinary Optimization*, Vol. 26, No. 6, pp. 417–428, April 2004 (**JOUR INT**).

10. Pradondet Nilagupta and Nuchtiphong Ou-thong, "Logic Function Minimization Base on Transistor Count Using Gentic Algorithm", in *Proceedings of the 3rd Information and Computer Engineering Postgraduate Workshop 2003 (ICEP 2003)*, Songkla, Thailand, January 2003 (**CONG INT**).
11. Tapabrata Ray, K.M. Liew and Pankaj Saini, "An intelligent information sharing strategy within a swarm for unconstrained and constrained optimization problems", *Soft Computing—A Fusion of Foundations, Methodologies and Applications*, Volume 6, No. 1, pp. 38-44, February 2002 (**JOUR INT**).
12. Tapabrata Ray and K.M. Liew, "Society and Civilization: An Optimization Algorithm Based on the Simulation of Social Behavior", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 4, pp. 386–396, August 2003 (**JOUR INT**).
13. S. Akhtar, K. Tai, and T. Ray, "A socio-behavioural simulation model for engineering design optimization", *Engineering Optimization*, Vol. 34, No. 4, pp. 341-354, 2002 (**JOUR INT**).
14. Yan Li, Li-Shan Kang and Hugo De Garis, "A robust algorithm for solving nonlinear programming problems", *International Journal of Computer Mathematics*, Vol. 79, No. 5, pp. 523–536, May 2002 (**JOUR INT**).
15. Yan Li and Li-Shan Kang, "A New Evolutionary Algorithm for Solving Nonlinear Programming Problems", en Alwyn Barry (editor), *2002 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 288–291, AAAI, New York, July 2002 (**CONG INT**).
16. Tapabrata Ray, "Constrained Robust Optimal Design using a Multiobjective Evolutionary Algorithm", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 419–424, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).
17. Tapabrata Ray and K.M. Liew, "A Swarm with an Effective Information Sharing Mechanism for Unconstrained and Constrained Single Objective Optimization Problems", *Proceedings of the 2001 Congress on Evolutionary Computation*, Seoul, Korea, Vol. 1, pp. 75–80, IEEE Service Center, Piscataway, New Jersey, July 2001. (**CONG INT**)
18. T. Ray and P. Saini, "Engineering Design Optimization using a Swarm with an Intelligent Information Sharing among Individuals", *Engineering Optimization*, Vol. 33, No. 6, pp. 735–748, 2001 (**JOUR INT**).

- Carlos A. Coello Coello. "Discrete Optimization of Trusses Using Genetic Algorithms". EXPERSYS-94. *Expert Systems Applications and Artificial Intelligence*. J. G. Chen, F. G. Attia and D. L. Crabtree (Editors). I.I.T.T. International. Technology Transfer Series, pp. 331–336. 1994.

    1. Noyan Turkkan, "Discrete Optimization of Structures using a Floating Point Genetic Algorithm", in *Annual Conference of the Canadian Society for Civil Engineering*, pp. GCM-134-1–GCM-134-8, Canadian Society for

Civil Engineering, Moncton, Nouveau-Brusnwick, Canada, Junio de 2003 (**CONG INT**).

2. Josiah Poon. "Problem Solving: Search, Exploration and Co-evolution", *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO'99), Wolfgang Banzhaf and Jason Daida and Agoston E. Eiben and Max H. Garzon and Vasant Honavar and Mark Jakiela and Robert E. Smith (editors), Morgan Kaufmann Publishers, Vol. 1, pp. 541–548, Orlando, Florida, USA, 1999. (**CONG INT**)

- **Coello Coello, Carlos A.; Rudnick, Michael and Christiansen, Alan D. "Using Genetic Algorithms for Optimal Design of Trusses".** ***Proceedings of the Sixth International Conference on Tools with Artificial Intelligence*****, TAI'94. pp. 88–94. IEEE Computer Society Press. New Orleans, Louisiana, USA. November 6-9, 1994.**

  1. R. Kicinger, T. Arciszewski and K. De Jong, "Evolutionary Computation and Structural Design: A Survey of the State-of-the-art", Computers & Structures, Vol. 83, Nos. 23–24, pp. 1943–1978, September 2005.
  2. Wanying Bi, "Intelligent Decision Support System for USDA Forest Service Aerial Spray Management", Masters Thesis, University of Georgia, Athens, Georgia, USA, 2000 (**TES MAES**).
  3. W.D. Potter, W. Bi, D. Twardus, H. Thistle, M.J. Twery, J. Ghent and M. Teske, "Handling the Back Calculation Problem in Aerial Spray Models Using a Genetic Algorithm", Chapter 6 in Lakhmi Jain & Philippe De Wilde (editors), *Practical Applications of Computational Intelligence Techniques*, pp. 177–222, Kluwer Academic Publishers, Boston, 2001 (**CAP LIB**).
  4. W.D. Potter, J. Ramyaa, J. Li, J. Ghent, D. Twardus and H. Thistle, "STP: An Aerial Spray Treatment Planning System", *Proceedings for the IEEE SoutheastCon 2002*, pp. 300–305, Columbia, SC, April 6, 2002 (**CONG INT**)
  5. P. Ponterosso, R.J. Fishwick, D.S. Fox, X.L. Liu, and D.W. Begg, "Masonry arch collapse loads and mechanisms by heuristically seeded genetic algorithm", *Computer Methods in Applied Mechanics and Engineering*, Vol. 190, Nos. 8–10, pp. 1233–1243, 2000 (**JOUR INT**).
  6. P. Ponterosso and D.S.J. Fox, "Heuristically seeded Genetic Algorithms applied to truss optimisation", *Engineering with Computers*, Vol. 15, No. 4, pp. 345–355, 1999 (**JOUR INT**).

- Ricardo Landa Becerra and Carlos A. Coello Coello, "Optimization with Constraints using a Cultured Differential Evolution Approach", in Hans-Georg Beyer et al. (editors), *Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 27–34, Vol. 1, ACM Press, Washington, DC, USA, June 2005, ISBN 1-59593-010-8.

1. Pei Yee Ho and Kazuyuki Shimizu, "Evolutionary constrained optimization using an addition of ranking method and a percentage-based tolerance value adjustment scheme", *Information Sciences*, Vol. 177, No. 14, pp. 2985–3004, July 15, 2007.
2. V.L. Huang, A.K. Qin and P.N. Suganthan, "Self-adaptive Differential Evolution Algorithm for Constrained Real-Parameter Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 324–331, IEEE, Vancouver, BC, Canada, July 2006.
3. Karin Zielinski, Petra Weitkemper, Rainer Laur and Karl-Dirk Kammeyer, "Parameter Study for Differential Evolution Using a Power Allocation Problem Including Interference Cancellation", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 6748–6755, IEEE, Vancouver, BC, Canada, July 2006.

- **Carlos A. Coello Coello, "A Short Tutorial on Evolutionary Multiobjective Optimization", In Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (editors), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Lecture Notes in Computer Science No. 1993, pp. 21–40, Marzo 2001.**

1. N. Nedjah and L.M. Mourelle, "Evolving Optimal Multi-Objective Hardware using Strength Pareto Evolutionary Algorithms", *International Journal of Computers, Systems and Signals*, Vol. 6, No. 1, pp. 37–47, 2005 (**JOUR INT**).
2. Wangshu Yao, Chen Shifu and Chen Zhaoqian, "SDMOGA: A New Multiobjective Genetic Algorithm Based on Objective Space Divided", in Irwin King, Jun Wang, Laiwan Chan and DeLiang L. Wang (editors), *Neural Information Processing, 13th International Conference, ICONIP 2006, Part III*, pp. 754–762, Springer-Verlag. Lecture Notes in Computer Science Vol. 4234, Hong Kong, China, October 2006.
3. Andres L. Medaglia, Samuel B. Graves and Jeffrey L. Ringuest, "A multiobjective evolutionary approach for linearly constrained project selection under uncertainty", *European Journal of Operational Research*, Vol. 179, No. 3, pp. 869–894, June 16, 2007.
4. P. Kumar, D. Gospodaric and P. Bauer, "Improved genetic algorithm inspired by biological evolution", *Soft Computing*, Vol. 11, No. 10, pp. 923–941, August 2007.
5. M. Davis Moradkhan and Will N. Browne, "A Knowledge-Based Evolution Strategy for the Multi-Objective Minimum Spanning Tree Problem", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 5540–5547, IEEE, Vancouver, BC, Canada, July 2006 (**CONG INT**).
6. Andrés L. Medaglia, Eliécer Gutiérrez and Juan Guillermo Villegas, "Solving Facility Location Problems with a Tool for Rapid Development of

Multi-Objective Evolutionary Algorithms (MOEAs)", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 642–660, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).

7. Nadia Nedjah and Luiza de Macedo Mourelle, "Evolutionary Multi-Objective Optimisation: A Review", in Nadia Nedjah and Luiza de Macedo Mourelle (editors), *Real-World Multi-Objective System Engineering*, pp. 3–27, Nova Science Publishers, New York, 2005.
8. I. Karen, A.R. Yildiz, N. Kaya, N. Öztürk and F. Öztürk, "Hybrid approach for genetic algorithm and Taguchi's method based design optimization in the automotive industry", *International Journal of Production Research*, Vol. 44, No. 22, pp. 4897–4914, November 15, 2006.
9. Bernd Domer, "Performance Enhancement of Active Structures during Service Lives", PhD thesis, Faculté Environnment Naturel, Architectural et Construit, Section de Génie Civil, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, 2003 (**TES DOC**).
10. Z. Kowalczuk and T. Bialaszewski, "Improving evolutionary multi-objective optimization using genders", *Artificial Intelligence and Soft Computing - ICAISC 2006*, pp. 390–399, Springer, Lecture Notes in Computer Science Vol. 4029, 2006.
11. Richard Orison Day, "Explicit Building Block Multiobjective Evolutionary Computation: Methods and Application", PhD thesis, Air Force Institute of Technology, AFIT/ENG, BLDG 642, 2950 Hobson Way, WPAFB (Dayton) OH 45433-7765, USA, June 2005 (**TES DOC**)
12. Khoa Duc Tran, "An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters", PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.
13. Tamas R. Liszkai and Anne M. Raich, "Solving Inverse Problems in Structural Damage Identification Using Advanced Genetic Algorithm Representations", in *6th World Congress of Structural and Multidisciplinary Optimization*, Rio de Janeiro, Brazil, June 2005 (**CONG INT**).
14. M.H. Nguyen, H.A. Abbass and R.I. McKay, "Stopping criteria for ensemble of evolutionary artificial neural networks", *Applied Soft Computing*, Vol. 6, No. 1, pp. 100–107, November 2005.
15. Tadashi Nakano and Tatsuya Suda, "Self-organizing network services with evolutionary adaptation", *IEEE Transactions on Neural Networks*, Vol. 16, No. 5, pp. 1269–1278, September 2005.
16. C. Mayr and R. Schuffny, "Applying spiking neural nets to noise shaping", *IEICE Transactions on Information and Systems*, Vol. E88D, No. 8, pp. 1885–1892, August 2005.
17. N. Nedjah and L.D.M. Mourelle, "Pareto-optimal hardware for digital circuits using SPEA", in *Innovations in Applied Artificial Intelligence*, Springer-Verlag, Lecture Notes in Artificial Intelligence Vol. 3533, pp. 594–604, 2005.

18. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).
19. Mario Köppen, Raul Vicente-Garcia and Betram Nickolay, "Fuzzy-Pareto-Dominance and Its Application in Evolutionary Multi-objective Optimization", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 399–412, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
20. A.S. Mayer, C.T. Kelley and C.T. Miller, "Optimal design for problems involving flow and transport phenomena in saturated subsurface systems", *Advances in Water Resources*, Vol. 25, Nos. 8-12, pp. 1233-1256, Aug-Dec 2002 (**JOUR INT**).
21. Magnus Lie Hetland and Pål Sætrom, "Evolutionary rule mining in time series databases", *Machine Learning*, Vol. 58 Nos. 2–3, pp. 107–125, February-March 2005 (**JOUR INT**).
22. E.F. Khor, K.C. Tan, T.H. Lee and C.K. Goh, "A study on distribution preservation mechanism in evolutionary multi-objective optimization", *Artificial Intelligence Review*, Vol. 23, No. 1, pp. 31–56, May 2005 (**JOUR INT**).
23. Mark D. Johnston and Hans-Martin Adorf, "Multi-objective evolutionary optimization", *OR News, the magazine of the German Operations Research Society*, Alemania, Vol. 18, pp. 11–16, July 2003 (**REV DIV**).
24. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).
25. D. Greiner, G. Winter, J.M. Emperador and B. Galván, "A Comparative Analysis of "Controlled Elitism" in the NSGA-II Applied to Frame Optimization", in Tadeusz Burczyński and Andrzej Osyczka (editors), *IUTAM Symposium on Evolutionary Methods in Mechanics*, pp. 101–110, Kluwer Academic Publishers, Dordrecht/Boston/London, 2004, ISBN 1-4020-2266-2 (**CAP LIB**).
26. Selin Cerav-Erbas, "Traffic Engineering in MPLS Networks with Multiple Objectives: Modeling and Optimization", PhD thesis, RWTH Aachen, Germany, 2004 (**TES DOC**).
27. Shengjing Mu, Hongye Su, Tao Jia, Yong Gu and Jian Chu, "Scalable multi-objective optimization of industrial purified terephthalic acid (PTA) oxidation process", *Computers & Chemical Engineering*, Vol. 28, No. 11, pp. 2219–2231, October 15, 2004 (**JOUR INT**).

28. Tatsuya Okabe, “Evolutionary Multi-Objective Optimization - On the Distribution of Offspring in Parameter and Fitness Space -”, PhD thesis, Bielefeld University, Germany, 2004 (**TES DOC**).
29. D. Greiner, J.M. Emperador and G. Winter, “Single and multiobjective frame optimization by evolutionary algorithms and the auto-adaptive rebirth operator”, *Computer Methods in Applied Mechanics and Engineering*, Vol. 193, Nos. 33–35, pp. 3711–3743, 2004 (**JOUR INT**).
30. Yann Collette and Patrick Siarry, “Multiobjective Optimization. Principles and Case Studies”, Springer, Berlin, 2003, ISBN 3-540-40182-2 (**LIB ING**).
31. Tadashi Nakano and Tatsuya Suda, “Adaptive and Evolvable Network Services”, in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 151–162, Seattle, Washington, USA, June 2004 (**CONG INT**).
32. K. Rodríguez-Vázquez, C.M. Fonseca and P.J. Fleming, “Identifying the Structure of NonLinear Dynamic Systems Using Multiobjective Genetic Programming”, *IEEE Transactions on Systems, Man, and Cybernetics—Part A: Systems and Humans*, Vol. 34, No. 4, pp. 531–545, July 2004 (**JOUR INT**).
33. M.A.H. Bayoumi and E.Z. El-Feky, “A Directed Genetic Algorithms for Treating Linear Programming Problems”, *International Journal of the Computer, The Internet and Management*, Vol. 11, No. 2, pp. 37–51, 2003 (**JOUR INT**).
34. Tamás Róbert Liszkai, “Modern Heuristics in Structural Damage Detection using Frequency Response Functions”, PhD thesis, Civil Engineering Department, Texas A&M University, USA, August 2003 (**TES DOC**).
35. Jesus Dario Landa Silva, “Metaheuristic and Multiobjective Approaches for Space Allocation”, PhD thesis, School of Computer Science and Information Technology, University of Nottingham, UK, November 2003 (**TES DOC**).
36. W. Filipowicz, “Vessel traffic control problems”, *Journal of Navigation*, Vol. 57, No. 1, pp. 15–24, January 2004 (**JOUR INT**).
37. Shengjing Mu, Hongye Su, Yong Gu and Jian Chu, “Multi-objective optimization of industrial purified terephthalic acid oxidation process”, *Chinese Journal of Chemical Engineering*, Vol. 11, No. 5, pp. 536–541, October 2003 (**JOUR INT**).
38. O. Peyran and W. Zhuang, “Educating Initial Solutions for Genetic Algorithms: A Chip Planning Optimization Example”, in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL’02)*, pp. 687–691, Vol. 2, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).

39. R.H.C. Takahashi, R.M. Palhares, D.A. Dutra and L.P.S. Goncalves, "Estimation of Pareto sets in the mixed H-2/H-infinity control problem", *International Journal of Systems Science*, Vol. 35, No. 1, pp. 55–67, January 15, 2004 (**JOUR INT**)

40. Sonia Hajri-Gabouj, "A fuzzy genetic multiobjective optimization algorithm for a multilevel generalized assignment problem", *IEEE Transactions on Systems, Man, and Cybernetics, Part C—Applications and Reviews*, Vol. 33, No. 2, pp. 214–224, May 2003 (**JOUR INT**).

41. I. Vasyltsov, "Elementary encoding by evolutionary approach", *Proceedings of Computational Science and Its Applications—ICCSA 2003*, Part 1, Lecture Notes in Computer Science, Vol. 2667, pp. 282–290, 2003 (**CONG INT**).

42. Adam Berry and Peter Vamplew, "A Simplified Artificial Life Model for Multiobjective Optimisation: A Preliminary Report", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 1331–1339, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

43. Mu Sheng-jing, Su Hong-ye, Chu Jian and Wang Yue-xuan, "An New Evolutionary Multi-objective Optimization algorithm", in *Proceedings of the 2003 Congress on Evolutionary Computation (CEC'2003)*, Volume 2, pp. 914–920, IEEE Press, Canberra, Australia, December 2003 (**CONG INT**).

44. Pål Sætrom and Magnus Lie Hetland, "Multiobjective Evolution of Temporal Rules", in *Proceedings of the 8th Scandinavian Conference on Artificial Intelligence*, IOS Press, Bergen, Norway, November 2003 (**CONG INT**)

45. T. Kiyota, Y. Tsuji and E. Kondo, "Unsatisfying functions and multiobjective fuzzy satisficing design using genetic algorithms", *IEEE Transactions on Systems, Man, and Cybernetics Part B-Cybernetics*, Vol. 33, No. 6, pp. 889–897, December 2003 (**CONG INT**).

46. Anne M. Raich and Tamas R. Liszkai, "Multi-Objective Genetic Algorithms for Sensor Layout Optimization in Structural Damage Detection", in Cihan H. Dagli, Anna L. Buczak, Joydeep Ghosh, Mark J. Embrechts and Okan Ersoy (editors), *Smart Engineering System Design: Neural Networks, Fuzzy Logic, Evolutionary Programming, Complex Systems, and Artificial Life (ANNIE'2003)*, pp. 889–894, ASME Press, November 2003 (**CONG INT**).

47. D. Greiner, G. Winter and J.M. Emperador, "Searching for an Efficient Method in Multiobjective Frame Optimisation using Evolutionary Algorithms", in K.J. Bathe (editor), *Computational Fluid and Solid Mechanics 2003. Proceedings of the Second MIT Conference on Computational Fluid and Solid Mechanics*, Volume 2, pp. 2285–2290, Elsevier, The Netherlands, June 2003 (**CONG INT**).

48. David Greiner, Blas Galván and Gabriel Winter, "Safety Systems Optimum Design by Multicriteria Evolutionary Algorithms", in Carlos M. Fonseca,

Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (editors), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 722–736, Springer. Lecture Notes in Computer Science. Volume 2632, Faro, Portugal, April 2003 (**CONG INT**).

49. Waldo Gonzalo Cancino Ticona, "Aplicação de Algoritmos Genéticos Multi-Objetivo para Alinhamento de Seqüências Biológicas", Master's Thesis, Universidad de Sao Paulo en San Carlos, Brasil, Abril de 2002 (**TES MAE**).
50. J. Wright, H.A. Loosemore and R. Farmani, "Optimization of building thermal design and control by multi-criterion genetic algorithm", *Energy and Buildings*, Vol. 34, No. 9, pp. 959–972, October 2002 (**JOUR INT**).
51. Jonathan Wright and Heather Loosemore, "The Multi-Criterion Optimization of Building Thermal Design and Control", in *7th IBPSA Conference: Building Simulation*, Rio de Janeiro, Brazil, 873-880, Vol. 2, ISBN 85-901939-3-4, August 2001 (**CONG INT**).
52. D. Greiner, G. Winter, J.M. Emperador and B. Galvan, "A comparative analysis of "Controlled Elitism" in the NSGA-II applied to optimization of frames",in *International Union of Theoretical and Applied Mechanics Symposium on Evolutionary Methods in Mechanics*, pp. 23–24, Cracow, Polonia, Septiembre de 2002 (**CONG INT**).
53. Yong Zhao, Carlos A. Brizuela and Nobuo Sannomiya, "Application of the Partial Enumeration Selection Method in Genetic Algorithms to Solving a Multi-Objective Flowshop Problem", *2001 IEEE International Conference on Systems, Man, and Cybernetics*, Vol. 4, pp. 2365–2370, 2001 (**CONG INT**).
54. David J. Caswell and Gary B. Lamont, "Wire-Antenna Geometry Design with Multiobjective Genetic Algorithms", *Congress on Evolutionary Computation (CEC'2002)*, Volume 1, pp. 103–108, IEEE Service Center, Piscataway, New Jersey, May 2002 (**CONG INT**).
55. E.K. Burke, P. Cowling, J.D. Landa Silva and S. Petrovic, "On the Performance of Population-Based Metaheuristics for the Space Allocation Problem", *Proceedings of the 4th Metaheuristics International Conference (MIC 2001)*, Program Operational Ciencia, Tecnologia, Inovaçao do Quadro Comunitário de Apoio III de Fundaçao para a Ciencia e Tecnologia, pp. 579–583, Porto, Portugal, July 2001 (**CONG INT**).
56. David J. Greiner, Gabriel Winter, José María Emperador y Blas Galván, "Una Adaptación Eficiente del Operador Truncamiento en el SPEA2", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 453–459, 2002, ISBN 84-607-3913-9. (**CONG INT**)
57. E.K. Burke, P. Cowling, J.D. Landa Silva and S. Petrovic, "Combining Hybrid Metaheuristics and Populations for the Multiobjective Optimisation of Space Allocation Problems", in Lee Spector, Erik Goodman, Annie

Wu, William B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference* (GECCO-2001), pp. 1252–1259, Morgan Kaufmann Publishers, San Francisco, California, July 2001. (**CONG INT**)

- Coello Coello, C. A.; Toscano Pulido, G. and Hernández Aguirre, A. "Multi-Objective Evolutionary Algorithms for Structural Optimization", in K.J. Bathe (editor), *Computational Fluid and Solid Mechanics 2003. Proceedings of the Second MIT Conference on Computational Fluid and Solid Mechanics*, Volume 2, pp. 2244–2248, Elsevier, The Netherlands, June 2003.

    1. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).

- Efrén Mezura-Montes, Jesús Velázquez-Reyes and Carlos A. Coello Coello, "Modified Differential Evolution for Constrained Optimization", in *2006 IEEE Congress on Evolutionary Computation (CEC'2006)*, pp. 332–339, IEEE Press, Sheraton Vancouver Wall Centre Hotel, Vancouver, BC, Canada, July 2006.

    1. Liang Jing, "Particle Swarm Optimizer", PhD thesis, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, 2006 (**TES DOC**).

- Mezura Montes, Efrén, Coello Coello, Carlos A. and Landa Becerra, Ricardo, "Engineering Optimization using a Simple Evolutionary Algorithm", *Proceedings of the Fifteenth International Conference on Tools with Artificial Intelligence (ICTAI 03)*, pp. 149–156, IEEE Computer Society, Sacramento, California, Noviembre de 2003.

    1. Koji Shimoyama, "Robust Aerodynamic Design of Mars Exploratory Airplane Wing with a New Optimization Method", PhD thesis, School of Engineering, The University of Tokyo, Japan, February 2006 (**TES DOC**).
    2. Koji Shimoyama, Akira Oyama and Kozo Fujii, "A New Efficient and Useful Robust Optimization Approach –Design for Multi-Objective Six Sigma", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 950–957, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).

- Mezura Montes, Efrén and Coello Coello, Carlos A., "Adding a Diversity Mechanism to a Simple Evolution Strategy to Solve Constrained Optimization Problems", in *Proceedings of 2003 Congress on Evolutionary Computation (CEC'2003)*, Vol. 1, pp. 6–13, IEEE Press, Canberra, Australia, December, 2003.

1. Andrés Gómez de Silva Garza and Arám Zamora Lores, "Case-Based Art", in H. Muñoz-Ávila and F. Ricci (editors), *Case-Based Reasoning Research and Development: Proceedings of the Sixth International Conference on Case-Based Reasoning ICCBR-05*, Springer, pp. 237–251, Lecture Notes in Artificial Intelligence Vol. 3620, August 2005.
2. Bill P. Buckles, Arturo Hernández-Aguirre, Carlos Coello-Coello, "Circuit Design Using Genetic Programming: An Illustrative Study", *Proceedings of the 10th NASA Symposium on VLSI Design*, Albuquerque NM, pp. 4.1-1–4.1-10, March 2002.
3. Ningyue Jiang, Sterling R. Whitaker and Gary K. Maki, "Automated Minimization of BTS Pass Networks", in *Proceedings of the 11th Annual NASA Symposium on VLSI Design*, Coeur d'Alene, Idaho, USA, May 28-29, 2003 (**CONG INT**).

- Coello Coello, Carlos A. "Constraint handling through a multi-objective optimization technique", in Annie Wu (editor), *Proceedings of the 1999 Genetic and Evolutionary Computation Conference. Workshop Program*, pp. 117–118, Orlando, Florida, 1999.

  1. S. Favuzza, M.G. Ippolito and E.R. Sanseverino, "Crowded comparison operators for constraints handling in NSGA-II for optimal design of the compensation system in electrical distribution networks", *Advanced Engineering Informatics*, Vol. 20, No. 2, pp. 201–211, April 2006.
  2. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).
  3. Yaochu Jin, *Advanced Fuzzy Systems Design and Applications*, Physica-Verlag, 2003, páginas 58 y 226, ISBN 3-7908-1537-3 (**LIB ING**).

- Coello Coello, Carlos A. & Landa Becerra, Ricardo, "Adding Knowledge and Efficient Data Structures to Evolutionary Programming: A Cultural Algorithm for Constrained Optimization", en W.B. Langdon, E.Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A.C. Schultz, J. F. Miller, E. Burke, and N.Jonoska (editors), *Proceedings of the Genetic and Evolutionary Computation Conference, GECCO 2002*, pp. 201–209, Morgan Kaufmann Publishers, San Francisco, California, July 2002.

  1. Raúl Giráldez, Jesús S. Aguilar-Ruiz and José C. Riquelme, "Knowledge-Based Fast Evaluation for Evolutionary Learning", *IEEE Transactions on Systems, Man, and Cybernetics—Part C: Applications and Reviews*, Vol. 35, No. 2, pp. 254–261 May 2005 (**JOUR INT**).

2. G. Winter, B. Galvan, S. Alonso, B. Gonzalez, J.I. Jimenez and D. Greiner, "A Flexible Evolutionary Agent: cooperation and competition among real-coded evolutionary operators", *Soft Computing*, Vol. 9, No. 4, pp. 299–323, April 2005 (**JOUR INT**).
3. Arturo Hernández-Aguirre, Giovanni Lizárraga-Lizárraga and Salvador Botello-Rionda, "IS-PAES: A multiobjective optimization method with efficient constraint handling in high dimensional space",in *International Union of Theoretical and Applied Mechanics Symposium on Evolutionary Methods in Mechanics*, pp. 23–24, Cracow, Polonia, Septiembre de 2002 (**CONG INT**).

- Coello Coello, Carlos A. & Landa Becerra, Ricardo, "A Cultural Algorithm for Constrained Optimization", en Carlos A. Coello Coello, Alvaro de Albornoz, Enrique Sucar & Osvaldo Cairó Battistutti (eds), *MICAI'2002: Advances in Artificial Intelligence*, pp. 98–107, Springer-Verlag, Lecture Notes in Artificial Intelligence, Vol. 2313, Abril de 2002.

  1. G. Winter, B. Galvan, S. Alonso, B. Gonzalez, J.I. Jimenez and D. Greiner, "A Flexible Evolutionary Agent: cooperation and competition among real-coded evolutionary operators", *Soft Computing*, Vol. 9, No. 4, pp. 299–323, April 2005.

- **Carlos A. Coello Coello and Alan D. Christiansen,"An Approach to Multiobjective Optimization Using Genetic Algorithms". En Dagli, C. H., Akay, M. Chen, C. L. P., Fernández, B. R., and Ghosh, J. (editors),** ***Intelligent Engineering Systems Through Artificial Neural Networks*** **(ANNIE'95). Volume 5. Fuzzy Logic and Evolutionary Programming, páginas 411–416. ASME Press. St. Louis, Missouri, USA. 12 al 15 de noviembre de 1995.**

  1. S.I. Han, I. Muta, T. Hoshino, T. Nakamura and N. Maki, "Optimal design of superconducting generator using genetic algorithm and simulated annealing", *IEE Proceedings–Electric Power Applications*, Vol. 151, No. 5, pp. 543–554, September 2004 (**JOUR INT**).
  2. Michelle R. Lavagna and Amalia Ercoli Finzi, "Concurrent Processes within Preliminary Spacecraft Design: An Autonomous Decisional Support Based on Genetic Algorithms and Analytic Hierarchical Process", in *Proceedings of the 17th International Symposium on Space Flight Dynamics*, Moscow, Russia, June 2003 (**CONG INT**).
  3. Gisella Hidalgo Melgar y Ruth Patricia Mendoza J., "Diseño de Redes LAN tipo *Ethernet* a través de Algoritmos Evolutivos Multiobjetivos", Tesis de Licenciatura, Facultad Experimental de Ciencias y Tecnología, Universidad de Carabobo, Bárbula, Venezuela, 2002 (**TES LIC**).
  4. Hala Fayad, "Application of Neural Networks and Genetic Algorithms for Solving Conjunctive Water Use Problems", PhD Thesis, Department of Biological and Irrigation Engineering, Utah State University, Logan, Utah, 2001 (**TES DOC**).

5. David Santo Orcero, *Simulación y Optimización Paralela de Agregados del Silicio*, Tesis de Maestría, Universidad de Málaga, Málaga, España, mayo de 2002 (**TES MAE**).
6. C. Dimopoulos and A.M.S. Zalzala, "Recent developments in evolutionary computation for manufacturing optimization: Problems, solutions, and comparisons", *IEEE Transactions on Evolutionary Computation*, Vol. 4, No. 2, pp. 93–113, July 2000 (**JOUR INT**)
7. Lina Maribel Collí Rivas, "Algoritmos Genéticos y su Aplicación a un Problema con Objetivos Múltiples", Facultad de Matemáticas, Licenciatura en Ciencias de la Computación, Universidad Autónoma de Yucatán, Mérida, Yucatán, Febrero de 1998. (**TES LIC**)

- **Carlos A. Coello Coello and Gregorio Toscano Pulido, "A Micro-Genetic Algorithm for Multiobjective Optimization", In Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos A. Coello Coello & David Corne (editors), *First International Conference on Evolutionary Multi-Criterion Optimization*, Springer-Verlag, Lecture Notes in Computer Science No. 1993, pp. 126–140, Marzo 2001.**

1. Wangshu Yao, Chen Shifu and Chen Zhaoqian, "SDMOGA: A New Multiobjective Genetic Algorithm Based on Objective Space Divided", in Irwin King, Jun Wang, Laiwan Chan and DeLiang L. Wang (editors), *Neural Information Processing, 13th International Conference, ICONIP 2006, Part III*, pp. 754–762, Springer-Verlag. Lecture Notes in Computer Science Vol. 4234, Hong Kong, China, October 2006.
2. A.R. Yildiz and F. Ozturk, "Hybrid enhanced genetic algorithm to select optimal machining parameters in turning operation", *Proceedings of the Institution of Mechanical Engineers Part B–Journal of Engineering Manufacture*, Vol. 220, No. 12, pp. 2041–2053, December 2006.
3. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, "A jumping-genes paradigm for optimizing factory WLAN network", *IEEE Transactions on Industrial Informatics*, Vol. 3, No. 1, pp. 33–43, February 2007.
4. Andrés L. Medaglia, Eliécer Gutiérrez and Juan Guillermo Villegas, "Solving Facility Location Problems with a Tool for Rapid Development of Multi-Objective Evolutionary Algorithms (MOEAs)", in Jean-Philippe Rennard (editor), *Handbook of Research on Nature Inspired Computing for Economy and Management*, pp. 642–660, Vol. II, Idea Group Reference, Hershey, UK, 2006, ISBN 1-59140-984-5 (**CAP LIB**).
5. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
6. A.R. Rahimi-Vahed and S.M. Mirghorbani, "A multi-objective particle swarm for a flow shop scheduling problem", *Journal of Combinatorial Optimization*, Vol. 13, No. 1, pp. 79–102, January 2007 (**JOUR INT**).

7. Nicolas Jozefowiez, “Modélisation et Résolution Approchée de Problèmes de Tournées Multi-Objectif”, PhD thesis, Université des Sciences et Technologies de Lille, France, December 2004 (**TES DOC**).
8. Francesco di Pierro, “Many-Objective Evolutionary Algorithms and Applications to Water Resources Engineering”, PhD thesis, School of Engineering, Computer Science and Mathematics, University of Exeter, UK, August 2006 (**TES DOC**).
9. Khoa Duc Tran, “An Improved Multi-Objective Evolutionary Algorithm with Adaptable Parameters”, PhD thesis, Graduate School of Computer and Information Systems, Nova Southeastern University, August 2006.
10. R.Q. Sardinas, M.R. Santana and E.A. Brindis, “Genetic algorithm-based multi-objective optimization of cutting parameters in turning processes”, *Engineering Applications of Artificial Intelligence*, Vol. 19, No. 2, pp. 127–133, March 2006.
11. C. Wilks and R. Eckmiller, “Optimization of an Evolutionary Algorithm for a Tactile Communication System”, in *2005 IEEE Congress on Evolutionary Computation (CEC’2005)*, pp. 1967–1973, Vol. 3, IEEE Service Center, Edinburgh, Scotland, September 2005.
12. Joshua Knowles, “ParEGO: A Hybrid Algorithm With On-Line Landscape Approximation for Expensive Multiobjective Optimization Problems”, *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 50–66, February 2006.
13. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, “A jumping gene algorithm for multiobjective resource management in wideband CDMA systems”, *Computer Journal*, Vol. 48, No. 6, pp. 749–768, November 2005.
14. William D. Annicchiarico and Miguel Cerraloza, “Micro Distributed Genetic Algorithms Applied in Structural Shape, System Identification and Biological Optimization Problems”, in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 193–223, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).
15. P.C. Chang, S.H. Chen and K.L. Lin, “Two-phase sub population genetic algorithm for parallel machine-scheduling problem”, *Expert Systems with Applications*, Vol. 29, No. 3, pp. 705–712, October 2005.
16. R.P. Beausoleil, ““MOSS” multiobjective scatter search applied to nonlinear multiple criteria optimization”, *European Journal of Operational Research*, Vol. 169, No. 2, pp. 426–449, March 1st, 2006.
17. Olga Roudenko, “Application des Algorithmes Evolutionnaires aux problèmes d’optimisation multi-critère avec contraintes”, PhD thesis, Université Paris 6, Paris, France, 2004 (**TES DOC**).
18. K. Rodriguez-Vazquez and P.J. Fleming, “Evolution of mathematical models of chaotic systems based on multiobjective genetic programming”, *Knowledge and Information Systems*, Vol. 8, No. 2, pp. 235–256, August 2005.

19. Matthieu Basseur, "Conception d'Algorithmes Coopératifs Pour L'Optimisation Multi-Objectif: Application aux Problèmes d'Ordonnancement de Type Flow-Shop", PhD thesis, Université des Sciences et Technologies de Lille, France, 2005 (in French) (**TES DOC**).

20. Joshua Knowles and David Corne, "Memetic Algorithms for Multiobjective Optimization: Issues, Methods and Prospects", in William E. Hart, N. Krasnogor and J.E. Smith (editors), *Recent Advances in Memetic Algorithms*, pp. 313–352, Springer. Studies in Fuzziness and Soft Computing, Vol. 166, 2005 (**CAP LIB**).

21. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).

22. E.F. Khor, K.C. Tan, T.H. Lee and C.K. Goh, "A study on distribution preservation mechanism in evolutionary multi-objective optimization", *Artificial Intelligence Review*, Vol. 23, No. 1, pp. 31–56, May 2005 (**JOUR INT**).

23. T.M. Chan, S. Kwong and K.F. Man, "Resource management in wideband CDMA systems using genetic algorithms", *Applied Artificial Intelligence*, Vol. 19, No. 1, pp. 1–41, January 2005 (**JOUR INT**).

24. Hyoung Seog Chung, "Multidisciplinary Design Optimization of Supersonic Business Jets using Approximation Model-Based Genetic Algorithms", PhD thesis, Department of Aeronautics and Astronautics, Stanford University, California, USA, March 2004 (**TES DOC**).

25. Christian Daniel von Lücken Martínez, "Algoritmos Evolutivos para Optimización Multiobjetivo: Un Estudio Comparativo en un Ambiente Paralelo Asíncrono", Tesis de Maestría, Ingeniería de Sistemas de la Universidad Nacional de Asunción, Asunción, Paraguay, Diciembre de 2003 (**TES MAES**).

26. Amer Hasanović, Ali Feliachi, Azra Hasanović, Navin B. Bhatt and Arthur G. DeGroff, "Practical Robust PSS Design Through Identification of Low-Order Transfer Functions", *IEEE Transactions on Power Systems*, Vol. 19, No. 3, pp. 1492–1500, August 2004 (**JOUR INT**).

27. Rajan Filomeno Coelho, "Multicriteria Optimization with Expert Rules for Mechanical Design", PhD thesis, Faculté des Sciences Appliquées, Université Libre de Bruxelles, Belgium, 2004 (**TES DOC**).

28. Nazan Khan, "Bayesian Optimization Algorithms for Multiobjective and Hierarchically Difficult Problems", Master's Thesis, Graduate College of the University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES MAES**).

29. M.A. Atherton and R.A. Bates, "Robust Optimization of Cardiovascular Stents: A Comparison of Methods", *Engineering Optimization*, Vol. 36, No. 2, pp. 207–217, April 2004 (**JOUR INT**).

30. Carsten Wilks, Thomas Schieder and Rolf Eckmiller, "Towards a tactile communication system with dialog-based tuning", in *Proceedings of the 2003 International Joint Conference on Neural Networks*, Vol. 3, pp. 1832–1837, July 2003 (**CONG INT**)

31. Robin Charles Purshouse, "On the Evolutionary Optimisation of Many Objectives", PhD thesis, Department of Automatic Control and Systems Engineering, The University of Sheffield, Sheffield, UK, September 2003 (**TES DOC**).

32. Lino Costa and Pedro Oliveira, "An Adaptive Sharing Elitist Evolution Strategy for Multiobjective Optimization", *Evolutionary Computation*, Vol. 11, No. 4, pp. 417-438, Winter 2003 (**JOUR INT**).

33. Gary G. Yen and Haiming Lu, "Dynamic Multiobjective Evolutionary Algorithm: Adaptive Cell-Based Rank and Density Estimation", *IEEE Transactions on Evolutionary Computation*, Vol. 7, No. 3, pp. 253–274, June 2003 (**JOUR INT**).

34. Jesse B. Zydallis. "Explicit Building-Block Multiobjective Genetic Algorithms: Theory, Analysis, and Development", PhD thesis, Air Force Institute of Technology, Department of the Air Force, Air University, Wright-Patterson, Airforce Base, Ohio, USA, March 2003 (**TES DOC**).

35. Gracia Sánchez Carpena, "Diseño y Evaluación de Algoritmos Evolutivos Multiobjetivo en Optimización y Modelación Difusa", Tesis Doctoral, Departamento de Ingeniería de la Información y las Comunicaciones, Facultad de Informática, Universidad de Murcia, España, Noviembre de 2002 (**TES DOC**).

36. A.S. Mayer, C.T. Kelley and C.T. Miller, "Optimal design for problems involving flow and transport phenomena in saturated subsurface systems", *Advances in Water Resources*, Vol. 25, Nos. 8-12, pp. 1233-1256, Aug-Dec 2002 (**JOUR INT**).

37. Rajeev Kumar and Peter Rockett, "Improved Sampling of the Pareto-Front in Multiobjective Genetic Optimizations by Steady-State Evolution: A Pareto Converging Genetic Algorithm", *Evolutionary Computation*, Vol. 10, No. 3, pp. 283–314, Fall 2002 (**JOUR INT**).

38. Joshua D. Knowles, "Local-Search and Hybrid Evolutionary Algorithms for Pareto Optimization", PhD Thesis, The University of Reading, Department of Computer Science, Reading, UK, January 2002. (**TES DOC**)

39. Eduardo Uresti Charre, "Un Algoritmo Genético Multimodal y su Aplicación al Problema de Ruteo de Vuelos con Múltiples Paradas", Tesis Doctoral, Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Monterrey, Programa de Graduados en Informática, Mayo de 2003. (**TES DOC**)

40. Kalyanmoy Deb, "Multi-Objective Optimization using Evolutionary Algorithms", John Wiley & Sons, Chichester, UK, 2001. pag. 272. (**LIB ING**)

- **Carlos A. Coello Coello and Gregorio Toscano Pulido, "Multiobjective Optimization using a Micro-Genetic Algorithm", en Lee Spector, Erik D. Goodman, Annie Wu, W.B. Langdon, Hans-Michael Voigt, Mitsuo Gen, Sandip Sen, Marco Dorigo, Shahram Pezeshk, Max H. Garzon, and Edmund Burke, (editors), *Proceedings of the Genetic and Evolutionary Computation Conference*, GECCO-2001, Morgan Kaufmann Publishers, pp. 274–282, San Francisco, California, Julio de 2001.**

    1. Y. Tang, P.M. Reed and J.B. Kollat, "Parallelization strategies for rapid and robust evolutionary multiobjective optimization in water resources applications", *Advances in Water Resources*, Vol. 30, No. 3, pp. 335–353, March 2007.
    2. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, "A jumping-genes paradigm for optimizing factory WLAN network", *IEEE Transactions on Industrial Informatics*, Vol. 3, No. 1, pp. 33–43, February 2007.
    3. Jesús Antonio Acosta Sarmiento, "Aprendizaje de Particiones Difusas para Razonamiento Inductivo", Tesis Doctoral, Departament d'Enginyeria de Sistemes, Automàtica i Informàtica Industrial, Universitat Politècnica de Catalunya, Barcelona, España, Diciembre de 2006 (**TES DOC**).
    4. Francisco Luna, Antonio J. Nebro and Enrique Alba, "Parallel Evolutionary Multiobjective Optimization", in N. Nedjah, E. Alba and L. de Macedo Mourelle (editors), *Parallel Evolutionary Computations*, pp. 33–56, Springer, Berlin Heidelberg, 2006.
    5. S. Kim and H.S. Chung, "Multiobjective optimization using adjoint gradient enhanced approximation models for genetic algorithms", *Computational Science and Its Applications—ICCSA 2006, Part 5*, Springer-Verlag, pp. 491–502, Lecture Notes in Computer Science Vol. 3984, 2006.
    6. F. Luna, A.J. Nebro and E. Alba, "Observations in using Grid-enabled technologies for solving multi-objective optimization problems", *Parallel Computing*, Vol. 32, Nos. 5-6, pp. 377–393, June 2006.
    7. A. De Risi, T. Donateo and D. Laforgia, " A new advanced approach to the design of combustion chambers in diesel engines", *International Journal of Vehicle Design*, Vol. 41, Nos. 1–4, pp. 165–187, 2006.
    8. T. Donateo, D. Laforgia, G. Aloisio and S. Mocavero, "An Evolutionary Algorithm to design Diesel Engines", in *2005 IEEE Congress on Evolutionary Computation (CEC'2005)*, pp. 802–809, Vol. 1, IEEE Service Center, Edinburgh, Scotland, September 2005 (**CONG INT**).
    9. Vlasis K. Koumousis and Christos P. Katsaras, "A Saw-Tooth Genetic Algorithm Combining the Effects of Variable Population Size and Reinitialization to Enhance Performance", *IEEE Transactions on Evolutionary Computation*, Vol. 10, No. 1, pp. 19–28, February 2006.
    10. S. Meshoul, K. Mahdi and M. Batouche, "A quantum inspired evolutionary framework for multi-objective optimization", in *Progress in Artificial In-*

telligence, Proceedings, pp. 190–201, Springer, Lecture Notes in Artificial Intelligence, Vol. 3808, 2005.

11. T.M. Chan, K.F. Man, K.S. Tang and S. Kwong, "A jumping gene algorithm for multiobjective resource management in wideband CDMA systems", *Computer Journal*, Vol. 48, No. 6, pp. 749–768, November 2005.
12. Carlo R. Raquel and Prospero C. Naval, Jr., "An Effective Use of Crowding Distance in Multiobjective Particle Swarm Optimization", in Hans-Georg Beyer et al. (editors), *2005 Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 257–264, Vol. 1, ACM Press, New York, USA, June 2005 (**CONG INT**).
13. Matěj Lepš, "Single and Multi-Objective Optimization in Civil Engineering", in William Annicchiarico, Jacques Périaux, Miguel Cerrolaza and Gabriel Winter (editors), *Evolutionary Algorithms and Intelligent Tools in Engineering Optimization*, pp. 322–342, WIT Press, CIMNE Barcelona, Southampton, Boston, 2005, ISBN 1-84564-038-1 (**CAP LIB**).
14. David Juan Greiner Sánchez, "Optimización Multiobjetivo de Pórticos Metálicos Mediante Algoritmos Evolutivos", PhD thesis, Universidad de las Plamas de Gran Canaria, Escuela Técnica Superior de Ingenieros Industriales, Departamentos de Informática y Sistemas, Matemática Aplicada e Ingeniería Civil, Las Palmas de Gran Canaria, España, Mayo de 2005 (**TES DOC**).
15. Antonio J. Nebro, Francisco Luna and Enrique Alba, "New Ideas in Applying Scatter Search to Multiobjective Optimization", in Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler (editors), *Evolutionary Multi-Criterion Optimization. Third International Conference, EMO 2005*, pp. 443–458, Springer. Lecture Notes in Computer Science Vol. 3410, Guanajuato, México, March 2005 (**CONG INT**).
16. Hyoung-Seog Chung and Juan J. Alonso, "Multiobjective Optimization Using Approximation Model-Based Genetic Algorithms", in *Proceedings of the 10th AIAA/ISSMO Symposium on Multidisciplinary Analysis and Optimization*, paper AIAA 2004-4325, Albany, New York, USA, August 30 to September 1, 2004 (**CONG INT**).
17. Alain Berro and Stephane Sanchez, "Autonomous Agent for Multi-objective Optimization", in Kalyanmoy Deb et al. (editors), *Genetic and Evolutionary Computation–GECCO 2004. Proceedings of the Genetic and Evolutionary Computation Conference. Part I*, Springer-Verlag, Lecture Notes in Computer Science Vol. 3102, pp. 251–252, Seattle, Washington, USA, June 2004 (**CONG INT**).
18. Nazan Khan, "Bayesian Optimization Algorithms for Multiobjective and Hierarchically Difficult Problems", Master's Thesis, Graduate College of the University of Illinois at Urbana-Champaign, Urbana, Illinois, USA, 2003 (**TES MAES**).
19. Hyoung-Seog Chung, Seongim Choi, and Juan J. Alonso, "Supersonic Business Jet Design Using Knowledge-Based Genetic Algorithm with Adap-

tive, Unstructured Grid Methodology", *21st AIAA Applied Aerodynamics Conference*, AIAA Paper AIAA-2003-3791, Orlando, FL, June 23-26, 2003 (**CONG INT**).

20. W. Fornaciari, P. Micheli, F.Salice, and L. Zampella, "A First Step Towards Hw/Sw Partitioning of UML Specifications", in *IEEE/ACM Design Automation and Test in Europe (DATE'03)*, pp. 668–673, Munich, Germany, 3-7 March, 2003 (**CONG INT**).
21. Alain Berro, "Optimisation Multiobjectif et Stratégies d'Evolution en Environnement Dynamique", PhD thesis, Université des Sciences Sociales Toulouse I, Toulouse, Francia, Diciembre de 2001 (**TES DOC**).
22. Jesse B. Zydallis. "Explicit Building-Block Multiobjective Genetic Algorithms: Theory, Analysis, and Development", PhD thesis, Air Force Institute of Technology, Department of the Air Force, Air University, Wright-Patterson, Airforce Base, Ohio, USA, March 2003 (**TES DOC**).
23. Waldo Gonzalo Cancino Ticona, "Aplicação de Algoritmos Genéticos Multi-Objetivo para Alinhamento de Seqüências Biológicas", Master's Thesis, Universidad de Sao Paulo en San Carlos, Brasil, Abril de 2002 (**TES MAE**).
24. José A. Jiménez-Mola, David J. Greiner, Jesús C. Abderramán, Pedro D. Cuesta y Gabriel Winter, "Análisis Comparativo de Algoritmos Multiobjetivo: NSGA-II y MRSMO", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 466–471, 2002, ISBN 84-607-3913-9. (**CONG INT**)
25. David J. Greiner, Gabriel Winter, José María Emperador y Blas Galván, "Una Adaptación Eficiente del Operador Truncamiento en el SPEA2", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 453–459, 2002, ISBN 84-607-3913-9. (**CONG INT**)
26. Eduardo Uresti Charre, "Un Algoritmo Genético Multimodal y su Aplicación al Problema de Ruteo de Vuelos con Múltiples Paradas", Tesis Doctoral, Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Monterrey, Programa de Graduados en Informática, Mayo de 2003. (**TES DOC**)

- **Coello Coello, Carlos A.; Christiansen, Alan D. and Hernández Aguirre, "Using Genetic Algorithms to Design Combinational Logic Circuits". ANNIE'96. *Intelligent Engineering through Artificial Neural Networks*, Volume 6. Smart Engineering Systems: Neural Networks, Fuzzy Logic and Evolutionary Programming. Edited by: Cihan H. Dagli, Metin Akay, C. L. Philip Chen, Benito R. Fernandez and Joydeep Ghosh, pp. 391–396. November, 1996.**

1. R. Mathur, S.G. Advani, S. Yarlagadda and B.K. Fink, "Genetic Algorithm based Resistive Susceptor Design for Uniform Heating During the Induction Bonding Process", *Journal of Thermoplastic Composite Materials*, Vol. 16, No. 6, pp. 529–550, November 2003 (**JOUR INT**).
2. Cecília Reis and J. A. Tenreiro Machado, "An Evolutionary Approach to the Synthesis of Combinational Circuits", in *Proceedings of the IEEE International Conference on Computational Cybernetics*, Gold Cost, Lake Balaton, Siófok, Hungary, August 2003 (**CONG INT**).

- Hernández Aguirre, Arturo; Botello Rionda, Salvador, Lizárraga Lizárraga, Giovanni and Coello Coello, Carlos A. "IS-PAES: A Constraint-Handling Technique Based on Multiobjective Optimization Concepts", in Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb and Lothar Thiele (Eds), *Evolutionary Multi-Criterion Optimization. Second International Conference, EMO 2003*, pp. 73–87, Springer, Lecture Notes in Computer Science, Vol. 2632, Faro, Portugal, April 2003.

    1. T.P. Runarsson and X. Yao, "Search biases in constrained evolutionary optimization", *IEEE Transactions on Systems, Man, and Cybernetics Part C—Applications and Reviews*, Vol. 35, No. 2, pp. 233–243, May 2005.

Revistas de Divulgación

- Hernández Aguirre, Arturo, Buckles, Bill P. y Coello Coello, Carlos A., "Estrategias Evolutivas: La Versión Alemana del Algoritmo Genético (Parte I)". Soluciones Avanzadas. Tecnologías de Información y Estrategias de Negocios, Año 6, Número 62, pp. 38–45, 15 de octubre de 1998.

    1. Julio A. Hernández y Rolando Nieva G. "Aplicación de un algoritmo evolutivo en la planificación de la compensación reactiva de redes de transmisión de energía eléctrica", *Boletín IIE*, pp. 20–28, Enero-Febrero del 2001 (**REV DIV**).

- Carlos A. Coello Coello. "Introducción a los Algoritmos Genéticos". *Soluciones Avanzadas*. Tecnologías de Información y Estrategias de Negocios, Año 3, Número 17, pp. 5–11, Enero de 1995.

    1. Francisco Alberto Alonso Farrera, "Optimización Conjunta de las Políticas de Mantenimiento y Rehabilitación en Puentes Mediante Algoritmos Genéticos. Aplicación al Sistema de Gestión de Puentes del Estado de Chiapas (México)", Tesis Doctoral, Departament d'Enginyeria de la Construcció, Universitat Politècnica de Catalunya, Barcelona, España, Mayo de 2006 (**TES DOC**).
    2. Wilfredo Falcón Urquiaga, "Optimización de Diseños sobre FPGAs e Implementación Paralela de Decodificador para LDPC", Tesis Doctoral, Mondragon Unibertsitatea, España, Mayo de 2004 (**TES DOC**).

3. Beatriz Pérez Rojas y María Auxilio Osorio Lama, "Análisis Comparativo de Heurísticas para el Problema de Calendarización de Trabajos con Transferencia Cero", en S. Botello, A. Hernández y C. Coello (eds), *Memorias del Primer Congreso Mexicano de Computación Evolutiva*, pp. 43–54, CIMAT, Guanajuato, México, ISBN 968-57-33-00-7, 2003 (**CONG NAC**).

4. Cristiano Lehrer and Paulo Segio da Silva Borges, "Algoritmos Genéticos com Operador de Recombinação Varável", en *II Congreso Brasileiro de Compataçao–CB Comp 2002, Inteligência Artificial*, Itajaí, Santa Catarina, Brasil, agosto 2002 (**CONG NAC**).

5. T.H Neri Vitela, J.M. Cervantes Martínez y J.L. Alvarado Guadarrama, "Optimización de un Sistema Dinámico de un Grado de Libertad Aplicando Algoritmos Genéticos", en *XIII Congreso Nacional de Ingeniería Sísmica*, Sociedad Mexicana de Ingeniería Sísmica A.C., Guadalajara, Jalisco, México, 2002 (**CONG NAC**).

6. Trina L. Adrián de Pérez and Carlos L. García, "Time-Frequency Representations and Genetic Algorithms for S Wave Detection", in *World Multiconference on Systemics, Cybernetics and Informatics*, Vol. 6, Florida, USA, July 2001 (**CONG INT**).

7. Tulio H. Neri Vitela, José M. Cervantes Martínez y Jorge L. Alvarado Guadarrama, "Algoritmos Genéticos Aplicados en Análisis de Estructuras Reticulares, en E. Oñate, F. Zárate, G. Ayala, S. Botello y M.A. Moreles (eds.), *Métodos Numéricos en Ingeniería y Ciencias Aplicadas*, CIMNE-CIMAT, Vol. 1, pp. 335–345, ISBN 84-89925-92-5, Enero 2002 (**CONG NAC**).

8. Cristiano Lehrer and Paulo Sergio da Silva Borges, "Métodos de Seleção "Hawk-Dove" para Algoritmos Genéticos Baseado no Jogo "Hawk-Dove"", *I Workshop de Informática aplicada à Saúde, CBComp 2001*, Universidade Federal de Santa Catarina, Florianópolis, Santa Catarina, Brasil, 2001 (**CONG INT**).

9. Teresa Cristina B. Saldanha, Mário César U. de Araujo and Benício de Barros Neto, "Simultaneous Multicomponent Analysis by UV-VIS Spectrophotometry", *Quimica Nova*, Vol. 22, No. 6, pp. 847–853, Nov-Dec 1999 (**JOUR INT**).

10. Lina Maribel Collí Rivas, "Algoritmos Genéticos y su Aplicación a un Problema con Objetivos Múltiples", Facultad de Matemáticas, Licenciatura en Ciencias de la Computación, Universidad Autónoma de Yucatán, Mérida, Yucatán, Febrero de 1998. (**TES LIC**)

11. Juan Carlos Leyva López, *Aplicación de los algoritmos genéticos a la solución de problemas de decisión multicriterio individual y en grupo*, Tesis de Doctorado en Ciencias de la Computación, Universidad Autónoma de Sinaloa, Facultad de Ingeniería, Marzo de 2001. (**TES DOC**).

12. José Galavíz Casas. "Algoritmos Genéticos Autoadaptables", *Soluciones Avanzadas*, Año 5, No. 48, pp. 71–72, Agosto de 1997. (**REV DIV**)

13. Franco E. Fontana. *Estudio de Aplicación de la Programación Genética a la Compresión de Imágenes con Pérdida de Datos*, Tesis de Licenciatura, Universidad Católica del Uruguay, Montevideo, Uruguay, 1998. (**TES LIC**)

Congresos en Español

- Coello Coello, Carlos A. y Maximino Salazar Lechuga, "MOPSO: Un Algoritmo Multiobjetivo Basado en Optimización Mediante Cúmulos de Partículas", en E. Alba, F. Fernández, J.A. Gómez, F. Herrera, J.I. Hidalgo, J. Lanchares, J.J. Merelo y J.M. Sánchez (Editores) *Primer Congreso Español de Algoritmos Evolutivos y Bioinspirados (AEB'02)*, Universidad de la Extremadura, España, pp. 445–452, 2002, ISBN 84-607-3913-9.

    1. K.C. Tan, E.F. Khor and T.H. Lee, "Multiobjective Evolutionary Algorithms and Applications", Springer-Verlag, London, 2005, ISBN 1-85233-836-9 (**LIB ING**).
    2. Carlos Andrés Romano y Sebastián Lozano Segura, "Un algoritmo basado en cúmulos de partículas para la resolución de problemas de agrupación celular de máquinas", en *Actas del II Congreso Español sobre Metaheursticas, Algoritmos Evolutivos y Bioinspirados (MAEB 03)*, Gijón,España, pp. 134–138, Febrero de 2003, ISBN 84-607-65-26-1 (**CONG INT**).

- Coello Coello, Carlos A.; Christiansen, Alan D. y Hernández Aguirre, Arturo. "Diseño Optimo de Circuitos Lógicos usando Algoritmos Genéticos". *Primer Encuentro de Computación*. Taller de Aprendizaje. Querétaro, Querétaro, 11-13 de septiembre de 1997, pp. 1–10.

    1. Eduardo Arturo Rodríguez Tello, "Optimización Genética de Problemas SAT", Tesis de Maestría, Programa de Graduados en Informática, ITESM Campus Morelos, Noviembre de 1999 (**TES MAE**).

- Coello Coello, Carlos A., "Optimización Evolutiva con Objetivos Múltiples: Estado del Arte y Tendencias Futuras", en Francisco Cantú Ortiz y Alvaro de Albornoz Bueno (editores), *Taller de Inteligencia Artificial* (TAINA'98), Centro de Investigación en Computación, pp. 373–392, México, D.F., Noviembre de 1998, ISBN 970-18-2057-6.

    1. Gisella Hidalgo Melgar y Ruth Patricia Mendoza J., "Diseño de Redes LAN tipo *Ethernet* a través de Algoritmos Evolutivos Multiobjetivos", Tesis de Licenciatura, Facultad Experimental de Ciencias y Tecnología, Universidad de Carabobo, Bárbula, Venezuela, 2002 (**TES LIC**).

- Coello Coello, Carlos A. & Cruz Cortés, Nareli, "Constraint-Handling in Genetic Algorithms through Emulations of the Immune System", en Carlos Zozaya, Marcelo Mejía, Pablo Noriega & Alfredo Sánchez (editores), *Tercer Encuentro*

Internacional de Ciencias de la Computación (ENC'01), Tomo I, pp. 115–124, Aguascalientes, Aguascalientes, Septiembre 2001.

1. Tapabrata Ray, Poan Choy Ling and Tai Kang, "A New Fitness Assignment and Parent Selection Strategy Within an Evolutionary Algorithm for Constrained Optimization Problems", in Lipo Wang, Kay Chen Tan, Takeshi Furuhashi, Jong-Hwan Kim and Xin Yao (editors), *Proceedings of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02)*, pp. 31–35, Vol. 1, Nanyang Technical University, Orchid Country Club, Singapore, November 2002 (**CONG INT**).