

An Indexed Bibliography of Genetic Algorithms in the Latin America, Portugal and Spain

compiled by

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Dedicated to Carlos A. Coello Coello

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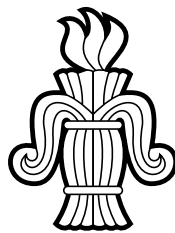
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Warning

While this bibliography has been compiled with the utmost care, the editor takes no responsibility for any errors, missing information, the contents or quality of the references, nor for the usefulness and/or the consequences of their application. The fact that a reference is included in this publication does not imply a recommendation. The use of any of the methods in the references is entirely at the user's own responsibility. Especially the above warning applies to those references that are marked by trailing '†' (or '*'), which are the ones that the editor has unfortunately not had the opportunity to read. An abstract was available of the references marked with '*'.

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Chapter 1

Preface

“Living organism are consummate problem solvers.
They exhibit a versatility that puts the best computer
programs to shame.”

John H. Holland [1]

The material of this bibliography has been extracted from the genetic algorithm bibliography [2], which when this report was compiled contained 11251 items and which has been collected from several sources of genetic algorithm literature including Usenet newsgroup `comp.ai.genetic` and the bibliographies [3, 4, 5, 6]. The following index periodicals have been used systematically

- A: *International Aerospace Abstracts*: Jan. 1995 – Mar. 1998
- ACM: *ACM Guide to Computing Literature*: 1979 – 1993/4
- BA: *Biological Abstracts*: July 1996 - Aug. 1998
- CA: *Computer Abstracts*: Jan. 1993 – Feb. 1995
- CCA: *Computer & Control Abstracts*: Jan. 1992 – Apr. 1998 (except May -95)
- ChA: *Chemical Abstracts*: Jan. 1997 - Dec. 1998
- CTI: *Current Technology Index* Jan./Feb. 1993 – Jan./Feb. 1994
- DAI: *Dissertation Abstracts International*: Vol. 53 No. 1 – Vol. 56 No. 10 (Apr. 1996)
- EEA: *Electrical & Electronics Abstracts*: Jan. 1991 – Apr. 1998
- EI A: *The Engineering Index Annual*: 1987 – 1992
- EI M: *The Engineering Index Monthly*: Jan. 1993 – Apr. 1998 (except May 1997)
- N: *Scientific and Technical Aerospace Reports*: Jan. 1993 - Dec. 1995 (except Oct. 1995)
- P: *Index to Scientific & Technical Proceedings*: Jan. 1986 – May 1998 (except Nov. 1994)
- PA: *Physics Abstracts*: Jan. 1997 – Sep. 1998

1.1 Your contributions erroneous or missing?

The bibliography database is updated on a regular basis and certainly contains many errors and inconsistencies. The editor would be glad to hear from any reader who notices any errors, missing information, articles etc. In the future a more complete version of this bibliography will be prepared for the genetic algorithms in the Latin America, Portugal and Spain research community and others who are interested in this rapidly growing area of genetic algorithms.

When submitting updates to the database, paper copies of already published contributions are preferred. Paper copies (or `ftp` ones) are needed mainly for indexing. We are also doing reviews of different aspects and applications of GAs where we need as complete as possible collection of GA papers. Please, do not forget to include complete bibliographical information: copy also proceedings volume title pages, journal table of contents pages, etc. Observe that there exists several versions of each subbibliography, therefore **the reference numbers are not unique and should not be used alone in communication**, use the **key** appearing as the last item of the reference entry instead.

Complete bibliographical information is really helpful for those who want to find your contribution in their libraries. If your paper was worth writing and publishing it is certainly worth to be referenced right in a bibliographical database read daily by GA researchers, both newcomers and established ones.

For further instructions and information see `ftp.uwasa.fi/cs/GAbib/README`.

1.1.1 How to cite this report?

The complete BiBTeX record for this report is shown below:

You can also use the BiBTeX file `GASUB.bib`, which is available in our ftp site `ftp.uwasa.fi` in directory `cs/report94-1` and contains records for all GA subbibliographies.

1.2 How to get this report via Internet?

Versions of this bibliography are available via anonymous `ftp` and `www` from the following sites:

<i>media</i>	<i>country</i>	<i>site</i>	<i>directory</i>	<i>file</i>
<code>ftp</code>	Finland	<code>ftp.uwasa.fi</code>	<code>/cs/report94-1</code>	<code>gaLATINbib.ps.Z</code>
<code>www</code>	Finland	<code>http://www.cs.hut.fi</code>	<code>~ja/gaLATINbib</code>	<code>gaLATINbib.html</code>

Observe that these versions may be somewhat different and perhaps reduced as compared to this volume that you are now reading. Due to technical problems in transforming L^AT_EX documents into `html` ones the `www` versions contain usually less information than the corresponding `ftp` ones. It is also possible that the `www` version is completely unreachable.

The directory also contains some other indexed GA bibliographies shown in table 1.1.

1.3 Acknowledgement

The editor wants to acknowledge all who have kindly supplied references, papers and other information on genetic algorithms in the Latin America, Portugal and Spain literature. At least the following GA researchers have already kindly supplied their complete autobibliographies and/or proofread references to their papers: Dan Adler, Patrick Argos, Jarmo T. Alander, James E. Baker, Wolfgang Banzhaf, Helio J. C. Barbosa, Hans-Georg Beyer, Christian Bierwirth, Joachim Born, Ralf Bruns, I. L. Bukatova, Thomas Bäck, David E. Clark, Carlos A. Coello Coello, Yuval Davidor, Dipankar Dasgupta, Marco Dorigo, J. Wayland Eheart, Bogdan Filipič, Terence C. Fogarty, David B. Fogel, Toshio Fukuda, Hugo de Garis, Robert C. Glen, David E. Goldberg, Martina Gorges-Schleuter, Hitoshi Hemmi, Vasant Honavar, Jeffrey Horn, Aristides T. Hatjimihail, Mark J. Jakiela, Richard S. Judson, Bryant A. Julstrom, Charles L. Karr, Akihiko Konagaya, Aaron Konstam, John R. Koza, Kristinn Kristinsson, D. P. Kwok, Gregory Levitin, Carlos B. Lucasius, Michael de la Maza, John R. McDonnell, J. J. Merelo, Laurence D. Merkle, Zbigniew Michalewics, Melanie Mitchell, David J. Nettleton, Volker Nissen, Ari Nissinen, Tomasz Ostrowski, Kihong Park, Nicholas J. Radcliffe, Colin R. Reeves, Gordon Roberts, David Rogers, Ivan Santibáñez-Koref, Marc Schoenauer, Markus Schwehm, Hans-Paul Schwefel, Michael T. Semertzidis, Moshe Sipper, William M. Spears, Donald S. Szarkowicz, El-Ghazali Talbi, Masahiro Tanaka, Leigh Tesfatsion, Peter M. Todd, Marco Tomassini, Andrew L. Tuson, Jari Vaario, Gilles Venturini, Hans-Michael Voigt, Roger L. Wainwright, D. Eric Walters, James F. Whidborne, Steward W. Wilson, Xin Yao, and Xiaodong Yin.

<i>file</i>	<i>contents</i>
ga90bib.ps.Z	GA in 1990
ga91bib.ps.Z	GA in 1991
ga92bib.ps.Z	GA in 1992
ga93bib.ps.Z	GA in 1993
ga94bib.ps.Z	GA in 1994
ga95bib.ps.Z	GA in 1995
ga96bib.ps.Z	GA in 1996
ga97bib.ps.Z	GA in 1997
ga98bib.ps.Z	GA in 1998
gaAIBib.ps.Z	GA in artificial intelligence
gaALIFEbib.ps.Z	GA in artificial life
gaARTbib.ps.Z	GA in art and music
gaAUSbib.ps.Z	GA in Australia
gaBASICSbib.ps.Z	Basics of GA
gaBIObib.ps.Z	GA in biosciences including medicine
gaCADbib.ps.Z	GA in Computer Aided Design
gaCHEMPHYSbib.ps.Z	GA in chemistry and physics
gaCONTROLbib.ps.Z	GA in control
gaCSbib.ps.Z	GA in computer science (incl. databases and GP)
gaDBbib.ps.Z	GA in databases
gaECObib.ps.Z	GA in economics and finance
gaENGBib.ps.Z	GA in engineering
gaESbib.ps.Z	Evolution strategies
gaFAR-EASTbib.ps.Z	GA in the Far East (Japan etc)
gaFRAbib.ps.Z	GA in France
gaFTPBib.ps.Z	GA papers available via ftp
gaFUZZYbib.ps.Z	GA and fuzzy logic
gaGERbib.ps.Z	GA in Germany
gaGPbib.ps.Z	genetic programming
gaIMPLEbib.ps.Z	implementations of GA
gaISbib.ps.Z	immune systems
gaJOURNALbib.ps.Z	journal articles
gaLOGISTICSbib.ps.Z	GA in logistics
gaMANUbib.ps.Z	GA in manufacturing
gaMEDITERbib.ps.Z	GA in the Mediterranean
gaNNbib.ps.Z	GA in neural networks
gaNORDICbib.ps.Z	GA in Nordic countries
gaOPTIMIBib.ps.Z	GA and optimization (only a few refs)
gaOPTICSbib.ps.Z	GA in optics and image processing
gaORBib.ps.Z	GA in operations research
gaPARAbib.ps.Z	Parallel and distributed GA
gaPOWERbib.ps.Z	GA in power engineering
gaPROTEINbib.ps.Z	GA in protein research
gaROBOTbib.ps.Z	GA in robotics
gaSAbib.ps.Z	GA and simulated annealing
gaSIGNALbib.ps.Z	GA in signal and image processing
gaTHEORYbib.ps.Z	Theory and analysis of GA
gaTOP10bib.ps.Z	Authors having at least 10 GA papers
gaUKbib.ps.Z	GA in United Kingdom
gaVLSIbib.ps.Z	GA in VLSI design and testing

Table 1.1: Indexed GA subbibliographies.

The editor also wants to acknowledge Elizabeth Heap-Talvela for her kind proofreading of the manuscript of this bibliography.

Chapter 2

Introduction

The table 2.1 gives the queries that have been used to extract this bibliography. The query system as well as the indexing tools used to compile this report from the BiBTeX-database [7] have been implemented by the author mainly as sets of simple `awk` and `gawk` programs [8, 9].

<i>string</i>	<i>field</i>	<i>class</i>
*BRA	ANNOTE	Brazil
*MEX	ANNOTE	Mexico
*VNZ	ANNOTE	Venezuela
*ARG	ANNOTE	Argentina
*CHILE	ANNOTE	Chile
*COL	ANNOTE	Columbia
*POR	ANNOTE	Portugal
*ESP	ANNOTE	Spain
*Spanish	NOTE	In Spanish
*Portuguese	NOTE	In Portuguese

Table 2.1: Queries used to extract this subbibliography from the main database.

Chapter 3

Statistical summaries

This chapter gives some general statistical summaries of genetic algorithms in the Latin America, Portugal and Spain literature. More detailed indexes can be found in the next chapter.

References to each class (c.f table 2.1) are listed below:

- **Argentina** 11 references ([10]-[20])
- **Brazil** 45 references ([21]-[65])
- **Chile** 2 references ([66]-[67])
- **Columbia** 1 references ([68]-[68])
- **Mexico** 43 references ([69]-[111])
- **Portugal** 21 references ([112]-[132])
- **Spain** 121 references ([133]-[253])
- **Venezuela** 15 references ([254]-[268])

Observe that each reference is included (by the computer) only to one of the above classes (see the queries for classification in table 2.1; query order gives priority for classes).

3.1 Publication type

This bibliography contains published contributions including reports and patents. All unpublished manuscripts have been omitted unless accepted for publication. In addition theses, PhD, MSc etc., are also included whether or not published somewhere.

Table 3.1 gives the distribution of publication type of the whole bibliography. Observe that the number of journal articles may also include articles published or to be published in unknown forums.

<i>type</i>	<i>number of items</i>
part of a collection	10
journal article	55
proceedings article	174
report	16
PhD thesis	2
MSc thesis	1
<i>others</i>	1
<i>total</i>	259

Table 3.1: Distribution of publication type.

3.2 Annual distribution

Table 3.2 gives the number of genetic algorithms in the Latin America, Portugal and Spain papers published annually. The annual distribution is also shown in fig. 3.1. The average annual growth of GA papers has been approximately 40 % during almost the last twenty years.

<i>year</i>	<i>items</i>	<i>year</i>	<i>items</i>
1991	1	1992	4
1993	16	1994	41
1995	62	1996	67
1997	49	1998	14
1999	5		
<i>total</i>			259

Table 3.2: Annual distribution of contributions.

3.3 Classification

Every bibliography item has been given at least one describing keyword or classification by the editor of this bibliography. Keywords occurring most are shown in table 3.3.

Words occurring most in titles are shown in table 3.4.

engineering	58
neural networks	30
control	28
optimization	14
hybrid	14
machine learning	13
fuzzy systems	10
others	467

Table 3.3: The most popular subjects.

Fuzzy	54
Optimization	34
Design	28
Evolutionary	24
Learning	22
neural	21
control	15
Distribution	15
Application	15
controller	14
Optimal	13
Genético	12
planning	11
Multiobjective	11
power	10

Table 3.4: The most popular words used in titles.

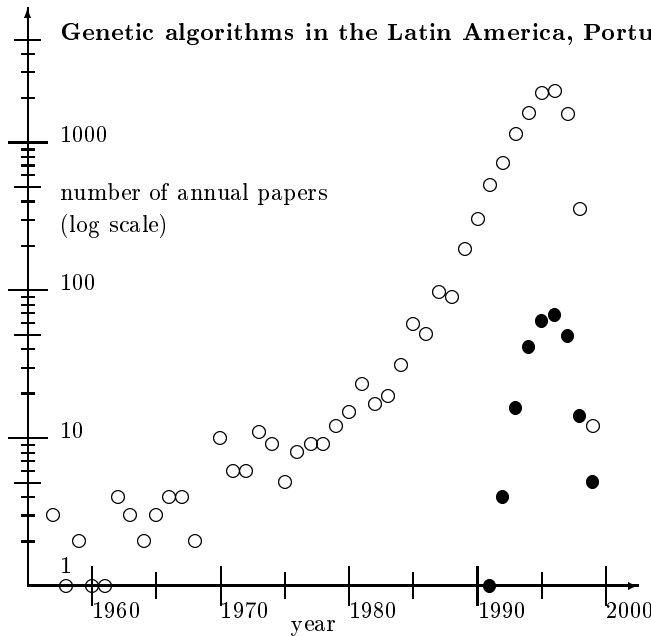


Figure 3.1: The number of papers applying **genetic algorithms in the Latin America, Portugal and Spain** (•) ○ = total GA papers. Observe that the last two years are most incomplete in the database.

3.4 Authors

Table 3.5 gives the most productive authors.

total number of authors	411
Herrera, Francisco	32
Coello Coello, Carlos A.	26
Lozano, Manuel	23
Verdegay, Jose Luis	16
Cordón, Oscar	11
1 author	9
1 author	8
2 authors	7
3 authors	6
2 authors	5
11 authors	4
15 authors	3
63 authors	2
307 authors	1

Table 3.5: The most productive genetic algorithms in the Latin America, Portugal and Spain authors.

3.5 Geographical distribution

The following table gives the geographical distribution of authors, when the country of the author was known. Over 80% of the references of the main database are classified by country.

<i>country</i>	<i>abs</i>	<i>%</i>
<i>Total</i>	259	100.00
Spain	122	47.10
Brazil	45	17.37
Mexico	43	16.60
Portugal	21	8.11
Venezuela	15	5.79
Argentina	4	1.54
Chile	2	0.77
The Netherlands	2	0.77
Colombia	1	0.39
Finland	1	0.39
France	1	0.39
Greece	1	0.39
United States	1	0.39
Unknown country	0	0.00

Table 3.6: The geographical distribution of the authors.

3.6 Conclusions and future

The editor believes that this bibliography contains references to most genetic algorithms in the Latin America, Portugal and Spain contributions upto and including the year 1998 and the editor hopes that this bibliography could give some help to those who are working or planning to work in this rapidly growing area of genetic algorithms.

Chapter 4

Indexes

4.1 Books

The following list contains all items classified as books.

- none

4.2 Journal articles

The following list contains the references to every journal article included in this bibliography. The list is arranged in alphabetical order by the name of the journal.

- American Journal of Physics, [101]
Analytica Chimica Acta, [207, 232]
Artificial Intelligence Review, [239]
Av. Ing. Quim., [92]
Bad. Oper. Decyzje (Poland), [166]
Biophysical Journal, [238]
Chromatographia, [132]
Civil Engineering Systems, [96, 105]
Computers in Industry, [109]
Egypt. Comput. J. (Egypt), [11]
Electronics Letters, [197, 20]
Engineering Optimization, [106, 108]
Engineering with Computers, [94]
European Journal of Operational Research, [237]
EvoNews, [194]
Expert Systems with Applications, [99]
Finite Elements in Analysis and Design, [264]
Fuzzy Systems & Artificial Intelligence Reports and Letters, [144]
IEEE Transaction on Power Systems, [240]
IEEE Transactions on Pattern Analysis and Machine Intelligence, [200]
IEEE Transactions on Power Systems, [113, 184, 67]
IEEE Transactions on Systems, Man, and Cybernetics, [191]
Inf. Syst. Eng. (Netherlands), [188]
Inform. Autom. (Spain), [183, 195]
Informática y Automática (Spain), [173, 242, 251]
Int. J. Approx. Reason. (USA), [229, 234]
Int. J. Electr. Power Energy Syst. (UK), [64]
Int. J. Power Energy Syst. (USA), [169]
Int. Numer. Meth. Eng., [259]
International Journal of Approximative Reasoning, [82]
International Journal of Intelligent Systems, [203]
Journal of Guidance, Control, and Dynamics, [14]
Knowledge and Information Systems. An International Journal, [107]
Mathware & Soft Computing, [175]
Microelectron. J. (UK), [170, 216, 225]
Midwest Symp Circuits Syst, [35]
Physical Review E, [100, 63]
Sens. Actuators A. Phys. (Switzerland), [244]
Soluciones Avanzadas. Tecnologías de Información, [82, 103, 104]
Statistics and Computing (UK), [226]
Tatra Mt. Math. Publ. (Slovakia), [220]
total 56 articles in 41 series

4.3 Theses

The following two lists contain theses, first PhD theses and then Master's etc. theses, arranged in alphabetical order by the name of the school.

4.3.1 PhD theses

Tulane University, [87]

Universidad Politécnica de Madrid, [137]

total 2 thesis in 2 schools

4.3.2 Master's theses

This list includes also “Diplomarbeit”, “Tech. Lic. Theses”, etc.

Instituto Superior Tecnico, [131]

4.4 Report series

The following list contains references to all papers published as technical reports. The list is arranged in alphabetical order by the name of the institute.

Central University of Venezuela, [258]

Laboratorio Nacional de Informática Avanzada (LANIA), [102]

Tulane University, [73]

Universidad de Granada,[147, 177, 178, 193, 247]

Universidad de Málaga, [133, 141, 241]

University of Granada, [164, 172, 174, 176]

Utrecht University, [114]

total 16 reports in 7 institutes

4.5 Patents

The following list contains the names of the patents of genetic algorithms in the Latin America, Portugal and Spain. The list is arranged in alphabetical order by the name of the patent.

- none

4.6 Authors

The following list contains all genetic algorithms in the Latin America, Portugal and Spain authors and references to their known contributions.

Abdala, Ricardo Skaf,	[29]	Barrios, Victor,	[265, 266]	Castillo, Luis,	[237]
Abdel-Wahab, A. H.,	[11]	Barron, M.,	[92]	Castro, J. L.,	[248]
Aguilar, J.,	[263]	Barruncho, L. M. F.,	[120, 126]	Castro, Jesus Silva,	[257]
Aguilar, R.,	[92]	Barruncho, P. M. S.,	[127]	Cerrolaza, M.,	[258, 264, 267]
Aguirre, Arturo Hernández,	[85, 97, 103, 104]	Bastos, R. C.,	[50]	Cesteros, A. M. F.-P.,	[183]
Ahonen, Hannu,	[53]	Belmontmoreno, E.,	[86]	Chacon, P.,	[238]
Aizpuru, J. R. Z.,	[148]	Bernal, A.,	[219]	Chang, O.,	[255, 256, 260, 262]
Alba, Enrique,	[186, 196]	Bernal-Agustín, José L.,	[139, 169, 240]	Chaves, R. O.,	[39, 55]
Alba Torres, Enrique A.,	[149, 241, 242, 243]	Bernier, J. L.,	[182, 222]	Chavez, Margarita G.,	[268]
Albarran, M. de las Mercedes Gomez,	[183]	Bharadwaj, K. K.,	[41]	Cheim, L.,	[47]
Aldana Montes, José Francisco,	[133, 141, 149, 151, 241, 243]	Bisch, Paulo M.,	[63]	Chowdhury, M. M. M.,	[18]
Almeida, F.,	[162]	Bolivar, U. S.,	[262]	Christiansen, Alan D.,	[73, 80, 85, 94, 96, 97, 105, 106]
Alonso, C.,	[208]	Bomfim, A. L. B. do,	[52]	Cluitmans, L. J. M.,	[16]
Alonso, F.,	[81]	Borges, Newton Chaves Kras,	[30]	Coello Coello, Carlos A.,	[71, 73, 74, 75, 76, 77, 78, 80, 81, 82, 83, 84, 85, 87, 94, 96, 97, 99, 102, 103, 104, 105, 106, 107, 108, 109]
Amaral, José Nelson,	[34]	Botazzo Delbum, Alexandre C.,	[56]	Colin, A.,	[92]
Anacleto, J. C. Silva,	[54]	Bousson, K.,	[124]	Colmenares, A.,	[263]
Anacleto, J. C.,	[22]	Brandao, M. A.,	[41]	Comellas, F.,	[245]
Andreu, J. M.,	[238]	Braunstingl, R.,	[163]	Conejo, A. J.,	[184]
Annicchiarico, W.,	[258, 264, 267]	Bretas, Newton G.,	[56]	Conejo, A.,	[195]
Apolinário Jr., J. A.,	[39, 55]	Buckles, Bill P.,	[103, 104]	Cordón, Oscar,	[150, 164, 177, 185, 198, 204, 205, 206, 211, 229, 235]
Aracil, J.,	[188]	Bustillo, Eduardo,	[212]	Cornejo-Rodriguez, A.,	[79, 93]
Araújo, A. N.,	[232]	Cadenas, Jose Manuel,	[143, 146, 166]	Cortez, P.,	[121]
Arcos, M. Julia,	[207]	Cain, G.,	[192]	Costa, Ernesto,	[130]
Ares, F.,	[181, 197]	Calôba, L. P.,	[39, 55]	Costa, J. P.,	[37]
Arraiz, E.,	[261]	Camacho, E. F.,	[158, 230]	Cotta, Carlos,	[186, 209]
Arroyo, J. M.,	[184, 195]	Camponogara, Eduardo,	[57]	Cotta Porras, Carlos,	[133, 151]
Aspiazu, J.,	[86]	Canas, A.,	[250]	Coutinho, M.S.,	[62]
Azevedo, Fernando M. de,	[35]	Candido, M. A. B.,	[58]	Cruz, I. Lopez,	[88]
Bakirtzis, A. G.,	[184]	Carazo, J. M.,	[223]	Cruz, J. M. de la,	[201]
Barbosa, Helio J. C.,	[40]	Carfahode, A.,	[60]	Cuesta, P.,	[142, 161]
Barcia, R. M.,	[45, 58]	Carreno, D.,	[210]	Cura, Eliana,	[67]
Barczak, C. L.,	[21, 27]	Carvalho, André C. P. L. F. de,	[56]	da Rocha Costa, Antonio Carlos,	[33]
Barone, Dante Augusto,	[32]	Carvalho, Luis,	[116]	deAbreuMoreira, D.,	[49]
Barone, Dante Augusto Couto,	[38]	Carvalho, P. M. S.,	[120, 126, 127]	Delgado, A.,	[187]
Barreto, Jorge M.,	[35]	Casao, Jorge Gasos,	[244]	Delgado, M.,	[248]
		Castellanos, J.,	[236]		

Delibasis, K.,	[10]	Garcia, F.,	[162, 251]	Izquierdo, M. C. M.,	[190]
Deris, S.,	[12]	Garcia Nocetti, D. F.,	[72]	Jack, M. A.,	[20]
Desanj, D. S.,	[59]	Garg, Vijayendra K.,	[53]	Jaimes-Romero, Fernando J.,	[95]
Diaz, J. F.,	[238]	Garnica, A. O.,	[170]	Jess, J. A. G.,	[16]
Diniz, L. S.,	[42]	Garnica, O.,	[214]	Jiménez, Fernando,	[143, 146, 153, 166]
Donha, D. C.,	[59]	Garrido, J.,	[215]	Jimenez, F.,	[217, 224]
Dormido, S.,	[201]	Gatto, Rubens C.,	[36]	Jimenez, M.,	[256, 260, 262]
Drummond, Lucia M.A.,	[31]	Gauthier, F. O.,	[45, 58]	Jiménez Rendondo, N.,	[184]
Duran, F.,	[255, 256, 260]	Geyer, Claudio Fernando R.,	[30]	Jones, D. I.,	[69, 111]
Duro, R. J.,	[134]	Ginesta, X.,	[210]	Justo, George Fabris,	[38]
Duro, Richard J.,	[140]	Goddard, J.,	[88, 89, 90, 98]	Katebi, M. R.,	[59]
Eiben, Ágoston E.,	[119]	Gois, R. S. S.,	[42]	Kateman, Gerrit,	[132]
Elazhary, H. H. R.,	[11]	Gomez-Albarran, M.,	[216]	Kazarlis, Spyros A.,	[184]
Elsimary, H.,	[19]	Gomez-Skarmeta, A. F.,	[217]	Khator, S. K.,	[58]
Enab, Y. M.,	[13]	Gomide, Fernando A. C.,	[23]	Kirner, C.,	[22, 54]
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The words of the titles of the articles are shown in the next table arranged in alphabetical order. The most common words have been excluded. The key word is shown by a disk (●) in the title field with the exception that it is omitted when appearing as the first word of the title after shown keyword. The other abbreviation used to compress titles are shown in appendix A.

- [67] **access** Economically adapted transmission-syst. in open ● schemes - Appl. of GAs
- [207] **acemethacin** GA-based wavelength sel. in multicomponent spectrometric determinations by PLS: Appl. on indomethacin and ● mixture
- [199] **Adaptation** of GA parameters based on fuzzy logic cntr.
- [67] **adapted** Economically ● transmission-syst. in open access schemes - Appl. of GAs
- [228] **adaptive** An appr. to an ● info retrieval agent using GAs with fuzzy set genes
- [142] - Mesh generation and ● remeshing by GAs on transonic flow simulation
- [192] ● + Darwinian appr. for the estimation and tracking of time delays
- [122] ● contour estimation with GAs
- [202] ● GAs based on fuzzy techniques
- [41] ● hierarchical censored production rule-based syst. : a GA appr.
- [228] **agent** An appr. to an adaptive info retrieval ● using GAs with fuzzy set genes
- [33] **agents** Non-supervised sensory-motor ● learning
- [49] - Placement opt. using behavior based software ● and the GA
- [44] - Placement opt. using behavior-based software ● and the GA
- [124] **aircraft** An opt. ● conflict resolution syst. based on hybrid models
- [103] **Alemana** Estrategias Evolutivas: La Versión ● del Algoritmo Genético (Parte I)
- [104] - Estrategias Evolutivas: La Versión ● del Algoritmo Genético (Parte II)
- [207] **algorithm-based** Gen. ● wavelength sel. in multicomponent spectrometric determinations by PLS: Appl. on indomethacin and acemethacin mixture
- [18] - Messy gen. ● new learning-method for structurally optimized neurofuzzy cntr.
- [204] **algorithm-evolution** A hybrid gen. ● strategy process for learning fuzzy logic cntr. knowledge bases
- [242] **algoritmos** Aplicación de los ● genéticos para el diseño de redes neuronales [Appl. of GAs for the design of neural networks]
- [241] - Los ● genéticos como heurístico en problemas de optimización
- [141] ● genéticos paralelos para problemas combinatorios sobre sistemas multiprocesadores de memoria distribuida
- [77] **Algoritmo** El ● Genético como Alternativa a la Prog. acción Dinámica
- [103] **Algoritmo** Estrategias Evolutivas: La Versión Alemana del ● Genético (Parte I)
- [104] - Estrategias Evolutivas: La Versión Alemana del ● Genético (Parte II)
- [31] **algoritmo** Um ● paralelo distribuido para o travelling purchaser problem [A par. distr. alg. for the traveling salesman problem]
- [16] **allocation** High-level synthesis sch. and ● using GAs
- [77] **Alternativa** El Algoritmo Genético como ● a la Prog. acción Dinámica
- [86] **analysis** Parameter determination for quantitative pixel ● using GAs
- [200] - Structure learning of Bayesian networks by GAs: a perf. ● of cntr. parameters
- [178] - Tackling real-coded GAs: operators and tools for behavioural ●
- [239] - Tackling real-coded GAs: Operators and tools for behavioural ●
- [10] **anatomical** GAs and deformable geometric models for ● object recognition
- [208] **AND** A gen. appr. to computing independent ● par. in logic prog.
- [243] **ANN** Full automatic ● design: a gen. appr.
- [38] - Novel intelligent environment dedicated to ● fast prototyping
- [55] **annealed** Cryptanalysis of speech signals ciphered by TSP using ● Hopfield neural network and GAs
- [39] - Cryptanalysis of speech signals ciphered by TSP using ● hopfield neural-network and GAs
- [256] **antenna** Synthesis of ● arrays using GAs
- [197] **antenna array** Appl. of GAs and simulated annealing technique in optimising the aperture distributions of ● patterns
- [260] **antenna arrays** Application of GAs for the synthesis of linear ●
- [181] - Appl. of GAs and simulated annealing technique in opt. the aperture distributions of ●
- [255] - Synthesis of multiple beam linear ● using GAs
- [197] **aperture** Appl. of GAs and simulated annealing technique in optimising the ● distributions of antenna array patterns
- [181] - Appl. of GAs and simulated annealing technique in opt. the ● distributions of antenna arrays
- [137] **aplicación** Estudio de la coordinación inteligente en robots bípedos: ● de lógica borrosa y algoritmos genéticos
- [242] ● de los alg. os genéticos para el diseño de redes neuronales [Appl. of GAs for the design of neural networks]
- [147] **aplicaciones** Algoritmos genéticos: Fundamentos, extensiones y ●
- [260] **Application** of GAs for the synthesis of linear antenna arrays
- [177] **Applicability** of the fuzzy operators in the design of fuzzy logic cntr.

- [242] **Application** Aplicación de los alg. os genéticos para el diseño de redes neuronales • of GAs for the design of neural networks]
- [67] **Application** Economically adapted transmission-syst. in open access schemes - • of GAs
- [207] - GA-based wavelength sel. in multicomponent spectrometric determinations by PLS: • on indomethacin and acemethacin mixture
- [23] - GAs and discrete event syst. : an •
- [115] - GAs and fuzzy models - an • to gas and electricity distribution planning under uncertainty
- [145] - GAs on lan-message passing architectures using PVM: • to the routing problem
- [173] - Gen. prog. : foundations and • on the opt. of NNs
- [42] • of a GA for calibration and structural modification of tank model
- [197] • of GAs and simulated annealing technique in optimising the aperture distributions of antenna array patterns
- [181] • of GAs and simulated annealing technique in opt. the aperture distributions of antenna arrays
- [20] • of par. GA and property of multiple global optima to VQ codevector index assignment for noisy channels
- [37] • of stochastic opt. to power syst. planning and operation
- [169] - Opt. of power distribution network design by • of GAs
- [249] **applications** GA • to fuzzy logic based syst.
- [139] - GAs • to the opt. power distribution syst. design
- [154, 167] **applied** Evol. -based learning • to fuzzy cntr.
- [240] - GAs • to the design of large power distribution syst.
- [187] - Hybrid syst. : neural networks and GAs • in nonlinear regression and time series forecasting
- [253] - Inductive learning • to fossil power plants cntr. opt.
- [69] - Parameter determination for a GA • to robot cntr.
- [144] **Applying** GAs in fuzzy opt. problems
- [11] • GAs in scientific discovery: a case study
- [22] • GAs to the load balancing problem
- [229] **approximate** A three-stage evol. process for learning descriptive and • fuzzy-logic-cntr. knowledge bases from examples
- [60] **architectures** Evol. design of MLP neural network •
- [145] - GAs on lan-message passing • using PVM: Appl. to the routing problem
- [51] **area** GAs and the location • partitioning problem in cellular networks
- [71] **Armaduras** Uso de Algoritmos Genéticos para el Diseño Optimo de •
- [256] **arrays** Synthesis of antenna • using GAs
- [121] **artificial** An evol. • neural network time series forecasting syst.
- [140] - Evol. generation and training of recurrent • neural networks
- [118] **assessment** Derivation of classification structures for fast evaluation of dynamic security • in power syst. using GAs
- [20] **assignment** Appl. of par. GA and property of multiple global optima to VQ codevector index • for noisy channels
- [79] **astronomical** Design of • telescopes of two mirrors using GA in the stage of opt.
- [171] **attitude** Two spacecraft • determination using NNs and image processing
- [243] **automatic** Full • ANN design: a gen. appr.
- [157] - GAs for fuzzy cntr. of • docking with a space station
- [70] **automotive** Use of GAs to optimize the cost of • wire harness
- [75] **Axial** Uso de Algoritmos Genéticos para la Optimización de Columnas no Prismáticas Sometidas a Carga •
- [96] **axially** A GA for the opt. design of • loaded non-prismatic columns
- [30] **backpropagation** Um estudo de paralelismo em redes •
- [149] **balancing** A GA for load • in par. query evaluation for deductive relational databases
- [85] - Use of GAs for multiobjective opt. of counterweight • of robot arms
- [133] **basadas** Diseño y evaluación de técnicas mixtas • en algoritmos genéticos y de branch-and-bound para la resolución de problemas de optimización combinatoria
- [234] **base** A fuzzy logic cntr. with learning through the evol. of its knowledge •
- [180] - Design of a cntr. rules • based on GAs
- [229] **bases** A three-stage evol. process for learning descriptive and approximate fuzzy-logic-cntr. knowledge • from examples
- [76] - Compresión de • de Datos
- [191] **Bayesian network** Learning • structures by searching for best ordering with GA
- [226] **Bayesian networks** Decomposing • triangulation of the moral graph with GAs
- [200] - Structure learning of • by GAs: a perf. analysis of cntr. parameters
- [255] **beam** Synthesis of multiple • linear antenna arrays using GAs
- [94] **beams** A simple GA for the design of reinforced concrete •
- [83] - An appr. to opt. design of reinforced concrete • using GAs
- [81, 99] - Opt. design of reinforced concrete • using GAs
- [78] - Use of GAs for the opt. design of reinforced concrete •
- [49] **behavior** Placement opt. using • based software agents and the GA
- [44] **behavior-based** Placement opt. using • software agents and the GA
- [132] **behaviour** Modelling chromatographic • as a function of pH and solvent composition in RPLC
- [25] - Simulation of exaptive •
- [178] **behavioural** Tackling real-coded GAs: operators and tools for • analysis
- [239] - Tackling real-coded GAs: Operators and tools for • analysis
- [26] **BEM** Design opt. using the • coupled with GA
- [164] **bibliography** A classified review on the combination fuzzy logic - GAs •
- [264] **bidimensional** Opt. of finite element • models: an appr. based on GAs
- [198] **bidirectional** On the • integration of GAs and fuzzy logic
- [223] **biological** A GA-optimized neural network for classification of • particles from electron-microscopy images
- [68] **Boltzmann machines** design using GAs in a par. environment
- [225] **Boolean** networks decomposition using GAs
- [29] - Sistema gen. o hierarquico para escolha topologica de redes neurais Booleanas [A hierarchical genetic syst. for selecting topology of • NNs]
- [29] **Booleanas** Sistema gen. o hierarquico para escolha topologica de redes neurais • [A hierarchical genetic syst. for selecting topology of Boolean NNs]
- [137] **borrosa** Estudio de la coordinación inteligente en robots bípedos: aplicación de lógica • y algoritmos genéticos
- [266] **boundary** Model-based epicardial • detection using GAs
- [265] - Model-based, knowledge-based epicardial • detector
- [151] **branch and bound techniques** Hybridizing GAs with • for the resolution of the TSP
- [133] **branch-and-bound** Diseño y evaluación de técnicas mixtas basadas en algoritmos genéticos y de • para la resolución de problemas de optimización combinatoria
- [42] **calibration** Appl. of a GA for • and structural modification of tank model
- [75] **Carga** Uso de Algoritmos Genéticos para la Optimización de Columnas no Prismáticas Sometidas a • Axial
- [51] **cellular networks** GAs and the location area partitioning problem in •
- [95] **cellular systems** Channel assignment in • using GAs
- [41] **censored** Adaptive hierarchical • production rule-based syst. : a GA appr.
- [15] **chaining** Software test data generation using the • appr.
- [95] **Channel assignment** in cellular syst. using GAs
- [20] **channels** Appl. of par. GA and property of multiple global optima to VQ codevector index assignment for noisy •
- [50] **chemical-analyses** A fuzzy expert-syst. for qualitative • of minerals
- [201] **choice** Between fuzzy-PID and PID-conventional cntr. : a good •
- [35] - GAs in the opt. • of neural networks for signal processing
- [132] **chromatographic** Modelling • behaviour as a function of pH and solvent composition in RPLC
- [55] **ciphered** Cryptanalysis of speech signals • by TSP using annealed Hopfield neural network and GAs

- [39] – Cryptanalysis of speech signals • by TSP using annealed hopfield neural-network and GAs
- [97] **circuits** Using GAs to design combinational logic •
- [101] **Cl** Evolving few-ion clusters of Na and •
- [223] **classification** A GA-optimized neural network for • of biological particles from electron-microscopy images
- [118] – Derivation of • structures for fast evaluation of dynamic security assessment in power syst. using GAs
- [164] **classified** A • review on the combination fuzzy logic – GAs bibliography
- [168] **classifier** Fuzzy and probabilistic reasoning in simple learning • syst.
- [112] **classifiers** GAs, • and par. – An object-oriented appr.
- [90] **climate** Greenhouse • cntr. by evol. computation - GAs and evol. ary prog.
- [88] – Greenhouse • cntr. by evol. computation: GAs and evol. ary prog.
- [128] **clustering** A gen. appr. to fuzzy • with a validity measure fitness function
- [218] – Experimental results of a Michigan-like evol. strategy for non-stationary •
- [231] – Gen. fuzzy • for the definition of fuzzy sets
- [101] **clusters** Evolving few-ion • of Na and Cl
- [91] – Evolving • with GAs
- [245] **codes** Using GAs to design constant weight •
- [221] **codesign** Functional partitioning for hardware-software • using GAs
- [20] **codevector** Appl. of par. GA and property of multiple global optima to VQ • index assignment for noisy channels
- [222] **coding** A new appr. to fuzzy cntr. designing and • via GAs
- [131] **Cognition** Evol. and • in Image Analysis
- [62] **cognitive** An evol. appr. to simulate • feedback learning in medical domain
- [111] **collision-free** Generation of • paths, a gen. appr.
- [232] **colorimetric** Evaluation of nat. computation techniques in the modeling and opt. of a sequential injection flow syst. for • iron(III) determination
- [75] **Columnas** Uso de Algoritmos Genéticos para la Optimización de • no Prismáticas Sometidas a Carga Axial
- [96] **columns** A GA for the opt. design of axially loaded non-prismatic •
- [164] **combination** A classified review on the • fuzzy logic – GAs bibliography
- [155] – G-LVQ, a • of GAs and LVQ
- [97] **combinational logic** Using GAs to design • circuits
- [141] **combinatorios** Alg. os genéticos paralelos para problemas • sobre sistemas multiprocesadores de memoria distribuida
- [77] **como** El Algoritmo Genético • Alternativa a la Prog. acción Dinámica
- [241] – Los alg. os genéticos • heurístico en problemas de optimización
- [162] **comparative** A • study of two distr. syst. : PVM and transputers
- [190] **comparison** GA for DNA/RNA sequence •
- [119] • of two Rep. for the simple and the enhanced job-shop Sch. problem
- [250] **competitive** Opt. of a • learning neural network by GAs
- [110] – The design of • alg. via GAs
- [54] **complex systems** A new appr. for GA as a support to the simulation of •
- [132] **composition** Modelling chromatographic behaviour as a function of pH and solvent • in RPLC
- [107] **comprehensive** A • survey of evol. -based multiobjective opt. techniques
- [76] **Compresión** de Bases de Datos
- [232] **computation** Evaluation of nat. • techniques in the modeling and opt. of a sequential injection flow syst. for colorimetric iron(III) determination
- [114] – Evol. • for the job-shop sch. problem
- [64] – Evol. • in power syst.
- [125] – Evol. • in power syst.
- [34] – GAs and evol. •
- [90] – Greenhouse climate cntr. by evol. • - GAs and evol. ary prog.
- [88] – Greenhouse climate cntr. by evol. • GAs and evol. ary prog.
- [236] – Molecular • for GAs
- [208] **computing** A gen. appr. to • independent AND par. in logic prog.
- [133] **combinatoria** Diseño y evaluación de técnicas mixtas basadas en algoritmos genéticos y de branch-and-bound para la resolución de problemas de optimización •
- [43] **concepts** The • of fuzzy sets and GAs: contrasts and similarities of expectations and development patterns (or would you rather mutate or go fuzzy?)
- [94] **concrete** A simple GA for the design of reinforced • beams
- [83] – An appr. to opt. design of reinforced • beams using GAs
- [81, 99] – Opt. design of reinforced • beams using GAs
- [78] – Use of GAs for the opt. design of reinforced • beams
- [84] **Concreto** Diseño Optimo de Vigas de • Reforzado mediante Algoritmos Genéticos
- [124] **conflict** An opt. aircraft • resolution syst. based on hybrid models
- [203] **connectives** Dynamic and heuristic fuzzy • based crossover operators for cntr. the diversity and convergence of real-coded GAs
- [172] – Fuzzy • based crossover operators to model GAs pop. diversity
- [189] – Heuristic crossovers for real-coded GAs based on fuzzy •
- [175] – The use of fuzzy • to design real-coded GAs
- [245] **constant** Using GAs to design • weight codes
- [61] **constellations** Generating fading-resistant • using GA
- [57] **constrained** A GA for • and multiobjective opt.
- [193] **constraint** Gen. Mastermind, a case of dynamic • opt.
- [182] – Solving *MasterMind* using GAs and simulated annealing: a case of dynamic • opt.
- [108] **constraints** Treating • as objectives for single-objective evol. opt.
- [122] **contour** Adaptive • estimation with GAs
- [43] **contrasts** The concepts of fuzzy sets and GAs: • and similarities of expectations and development patterns (or would you rather mutate or go fuzzy?)
- [46] **control** A gen. -based • design for damping power syst. inter-area oscillations
- [176] – A learning process for fuzzy • rules using GAs
- [180] – Design of a • rules base based on GAs
- [206] – Generating and selecting fuzzy • rules using evol. strategies and GAs
- [59] – GA for weight sel. in H • design
- [157] – GAs for fuzzy • of automatic docking with a space station
- [90] – Greenhouse climate • by evol. computation - GAs and evol. ary prog.
- [88] – Greenhouse climate • by evol. computation: GAs and evol. ary prog.
- [253] – Inductive learning appl. to fossil power plants • opt.
- [32] – Intelligent solutions for cybernetics vehicle •
- [219] – Opt. • of an inverted pendulum by gen. prog. : practical aspects
- [69] – Parameter determination for a GA appl. to robot •
- [200] – Structure learning of Bayesian networks by GAs: a perf. analysis of • parameters
- [138] – The routing problem in traffic • using GAs
- [160] **control systems** GAs in fuzzy •
- [234] **controller** A fuzzy logic • with learning through the evol. of its knowledge base
- [204] – A hybrid GA-ES process for learning fuzzy logic • knowledge bases
- [222] – A new appr. to fuzzy • designing and coding via GAs
- [163] – A wall following robot with a fuzzy logic • optimized by a GA
- [199] **controllers** Adaptation of GA parameters based on fuzzy logic •
- [177] – Applicability of the fuzzy operators in the design of fuzzy logic •
- [201] – Between fuzzy-PID and PID-conventional • a good choice
- [186] – Evol. design of fuzzy logic •
- [154, 167] – Evol. -based learning appl. to fuzzy •
- [18] – Messy GA-based new learning-method for structurally optimized neurofuzzy •
- [247] – Tuning fuzzy logic • by GA
- [165] – Tuning fuzzy-logic • by GAs
- [52] – Tuning of power syst. damping • using GAs

- [174] **controlling** Dynamic and heuristic crossover operators for • the diversity and convergence of real-coded GAs
- [203] – Dynamic and heuristic fuzzy connectives based crossover operators for • the diversity and convergence of real-coded GAs
- [174] **convergence** Dynamic and heuristic crossover operators for cntr. the diversity and • of real-coded GAs
- [203] – Dynamic and heuristic fuzzy connectives based crossover operators for cntr. the diversity and • of real-coded GAs
- [120] – Opt. distribution network expansion planning under uncertainty by evol. decision •
- [137] **coordinación** Estudio de la • inteligente en robots bípedos: aplicación de lógica borrosa y algoritmos genéticos
- [158] **Coordinated** motion planning of manipulators by ES
- [70] **cost** Use of GAs to optimize the • of automotive wire harness
- [85] **counterweight** Use of GAs for multiobjective opt. of • balancing of robot arms
- [26] **coupled** Design opt. using the BEM • with GA
- [48] – GA • with a deterministic method for opt. in electromagnetics
- [203] **crossover** Dynamic and heuristic fuzzy connectives based • operators for cntr. the diversity and convergence of real-coded GAs
- [174] **crossover operators** Dynamic and heuristic • for cntr. the diversity and convergence of real-coded GAs
- [172] – Fuzzy connectives based • to model GAs pop. diversity
- [189] **crossovers** Heuristic • for real-coded GAs based on fuzzy connectives
- [55] **Cryptanalysis** of speech signals ciphered by TSP using annealed Hopfield neural network and GAs
- [39] • of speech signals ciphered by TSP using annealed hopfield neural-network and GAs
- [32] **cybernetics** Intelligent solutions for • vehicle cntr.
- [46] **damping** A gen. -based cntr. design for • power syst. inter-area oscillations
- [52] – Tuning of power syst. • cntr. using GAs
- [192] **Darwinian** Adaptive + • appr. for the estimation and tracking of time delays
- [149] **databases** A GA for load balancing in par. query evaluation for deductive relational •
- [76] **Datos** Compresión de Bases de •
- [120] **decision** Opt. distribution network expansion planning under uncertainty by evol. • convergence
- [127] **decision-making** An evol. appr. to • in distribution planning
- [226] **Decomposing** Bayesian networks: triangulation of the moral graph with GAs
- [225] **decomposition** Boolean networks • using GAs
- [38] **dedicated** Novel intelligent environment • to ANN fast prototyping
- [149] **deductive** A GA for load balancing in par. query evaluation for • relational databases
- [231] **definition** Gen. fuzzy clustering for the • of fuzzy sets
- [10] **deformable** GAs and • geometric models for anatomical object recognition
- [100] **degrees** Effective • of freedom in GAs
- [103] **del** Estrategias Evolutivas: La Versión Alemana • Algoritmo Genético (Parte I)
- [104] – Estrategias Evolutivas: La Versión Alemana • Algoritmo Genético (Parte II)
- [194] **delivery** DISTOS: Efficient petrol • syst. using optimized truck routing
- [118] **Derivation** of classification structures for fast evaluation of dynamic security assessment in power syst. using GAs
- [229] **descriptive** A three-stage evol. process for learning • and approximate fuzzy-logic-cntr. knowledge bases from examples
- [96] **design** A GA for the opt. • of axially loaded non-prismatic columns
- [46] – A gen. -based cntr. • for damping power syst. inter-area oscillations
- [94] – A simple GA for the • of reinforced concrete beams
- [83] – An appr. to opt. • of reinforced concrete beams using GAs
- [87] – An Empirical Study of Evol. Techniques for Multiobjective Opt. in Eng. •
- [242] – Aplicación de los alg. os genéticos para el diseño de redes neuronales [Appl. of GAs for the • of neural networks]
- [177] – Applicability of the fuzzy operators in the • of fuzzy logic cntr.
- [68] – Boltzmann machines • using GAs in a par. environment
- [186] – Evol. • of fuzzy logic cntr.
- [60] – Evol. • of MLP neural network architectures
- [235] – Evol. • of TSK fuzzy rule-based syst. using
- [243] – Full automatic ANN • a gen. appr.
- [59] – GA for weight sel. in H cntr. •
- [139] – GAs appl. to the opt. power distribution syst. •
- [240] – GAs appl. to the • of large power distribution syst.
- [93] – Lens • using GA in the stage of opt.
- [106] – MOSES: A multiobjective opt. tool for eng. •
- [180] • of a cntr. rules base based on GAs
- [79] • of astronomical telescopes of two mirrors using GA in the stage of opt.
- [26] • opt. using the BEM coupled with GA
- [81, 99] – Opt. • of reinforced concrete beams using GAs
- [169] – Opt. of power distribution network • by appl. of GAs
- [175] – The use of fuzzy connectives to • real-coded GAs
- [110] – The • of competitive alg. via GAs
- [78] – Use of GAs for the opt. • of reinforced concrete beams
- [97] – Using GAs to • combinational logic circuits
- [245] – Using GAs to • constant weight codes
- [134] **designer** GENIAL: an evol. recurrent neural network • and trainer
- [222] **designing** A new appr. to fuzzy cntr. • and coding via GAs
- [185] – A three-stage method for • gen. fuzzy syst. by learning from examples
- [66] • max-min propagation NNs by hyperplane switching
- [73] **Designs** Opt. of Truss • using GAs
- [266] **detection** Model-based epicardial boundary • using GAs
- [265] **detector** Model-based, knowledge-based epicardial boundary •
- [232] **determination** Evaluation of nat. computation techniques in the modeling and opt. of a sequential injection flow syst. for colorimetric iron(III) •
- [69] – Parameter • for a GA appl. to robot cntr.
- [86] – Parameter • for quantitative pixel analysis using GAs
- [171] – Two spacecraft attitude • using NNs and image processing
- [207] **determinations** GA-based wavelength sel. in multi-component spectrometric • by PLS: Appl. on indomethacin and acemethacin mixture
- [233] **determining** Using info measures for • the relevance of the predictive variables in learning problems
- [48] **deterministic method** GA coupled with a • for opt. in electromagnetics
- [43] **development** The concepts of fuzzy sets and GAs: contrasts and similarities of expectations and • patterns (or would you rather mutate or go fuzzy?)
- [77] **Dinámica** El Algoritmo Genético como Alternativa a la Prog. acción •
- [11] **discovery** Applying GAs in scientific • a case study
- [23] **discrete** GAs and • event syst. : an appl.
- [74] • opt. of trusses using GAs
- [252] **discrete-time** Gen. synthesis of • recurrent neural network
- [184] **Discussion** [of [269]]
- [242] **diseño** Aplicación de los alg. os genéticos para el • de redes neuronales [Appl. of GAs for the design of neural networks]
- [84] • Optimo de Vigas de Concreto Reforzado mediante Algoritmos Genéticos
- [133] • y evaluación de técnicas mixtas basadas en algoritmos genéticos y de branch-and-bound para la resolución de problemas de optimización combinatoria
- [71] – Uso de Algoritmos Genéticos para el • Optimo de Armaduras
- [123] **dispersed** Dynamic planning of distribution networks including • generation
- [194] **DISTOS** Efficient petrol delivery syst. using optimized truck routing
- [141] **distribuida** Alg. os genéticos paralelos para problemas combinatorios sobre sistemas multiprocesadores de memoria •
- [31] **distribuido** Um algoritmo paralelo • para o travelling purchaser problem [A par. distr. alg. for the traveling salesman problem]

- [31] **distributed** Um algoritmo paralelo distribuido para o travelling purchaser problem [A par. • alg. for the traveling salesman problem]
- [162] **distributed systems** A comparative study of two • PVM and transputers
- [117] **distribution** A general methodology for • planning under uncertainty, including GAs and fuzzy models in a multi-criteria environment
- [127] – An evol. appr. to decision-making in • planning
- [115] – GAs and fuzzy models – an appl. to gas and electricity • planning under uncertainty
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- [120] – Opt. • network expansion planning under uncertainty by evol. decision convergence
- [169] – Opt. of power • network design by appl. of GAs
- [126] **Distribution network** expansion planning under uncertainty: a hedging alg. in an evol. appr.
- [116] **distribution networks** Dynamic planning of • for minimum regret strategies
- [123] – Dynamic planning of • including dispersed generation
- [139] **distribution systems** GAs appl. to the opt. power • design
- [240] – GAs appl. to the design of large power •
- [56] – Opt. energy restoration in • using gen. alg.
- [197] **distributions** Appl. of GAs and simulated annealing technique in optimising the aperture • of antenna array patterns
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- [174] **diversity** Dynamic and heuristic crossover operators for cntr. the • and convergence of real-coded GAs
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- [172] – Fuzzy connectives based crossover operators to model GAs pop. •
- [190] **DNA/RNA** GA for • sequence comparison
- [157] **docking** GAs for fuzzy cntr. of automatic • with a space station
- [62] **domain** An evol. appr. to simulate cognitive feedback learning in medical •
- [36] **Doppler** An experience in satellite • positioning using an evol. appr.
- [261] **drawing** A GA for • graphs in an interactive environment
- [118] **dynamic** Derivation of classification structures for fast evaluation of • security assessment in power syst. using GAs
- [193] – Gen. Mastermind, a case of • constraint opt.
- [174] • and heuristic crossover operators for cntr. the diversity and convergence of real-coded GAs
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- [116] • planning of distribution networks for minimum regret strategies
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- [182] – Solving *MasterMind* using GAs and simulated annealing: a case of • constraint opt.
- [237] **economic** Distribution network opt. : Finding the most • solution by using GA
- [67] **Economically** adapted transmission-syst. in open access schemes - Appl. of GAs
- [194] **Efficient** DISTOS: • petrol delivery syst. using optimized truck routing
- [242] **el** Aplicación de los alg. os genéticos para • diseño de redes neuronales [Appl. of GAs for the design of neural networks]
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- [213] **Electric** load forecasting with gen. neural networks
- [115] **electricity** GAs and fuzzy models – an appl. to gas and • distribution planning under uncertainty
- [257] **Electrocardiographic** signal analysis using GAs (GAs)
- [48] **electromagnetics** GA coupled with a deterministic method for opt. in •
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- [264] **element** Opt. of finite • bidimensional models: an appr. based on GAs
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- [56] **energy** Opt. • restoration in distribution syst. using gen. alg.
- [87] **Engineering** An Empirical Study of Evol. Techniques for Multiobjective Opt. in • Design
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- [119] **enhanced** Comparison of two Rep. for the simple and the • job-shop Sch. problem
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- [265] **epicardial** Model-based, knowledge-based • boundary detector
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- [92] **equation of state** Parametric opt. of an • by GAs
- [249] **escolha** Sistema gen. o hierarquico para • topologica de redes neurais Booleanas [A hierarchical genetic syst. for selecting topology of Boolean NNs]
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- [232] • of nat. computation techniques in the modeling and opt. of a sequential injection flow syst. for colorimetric iron(III) determination
- [23] **event** GAs and discrete • syst. : an appl.
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- [158] – Coordinated motion planning of manipulators by • strategies
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- [77] **Genético** El Algoritmo • como Alternativa a la Prog. acción Dinámica
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- [56] **genetics** Opt. energy restoration in distribution syst. using • alg.
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- [155] **LVQ** G-LVQ, a combination of GAs and •
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- [248] **method** A learning • of fuzzy reasoning by GAs
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- [66] **neural** Designing max-min propagation • networks by hyperplane switching
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- [233] **predictive** Using info measures for determining the relevance of the • variables in learning problems
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- [170] **reducing** A GA for • the number of states in incompletely specified finite state machines
- [84] **Reforzado** Diseño Optimo de Vigas de Concreto • mediante Algoritmos Genéticos
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- [116] **regret** Dynamic planning of distribution networks for minimum • strategies
- [94] **reinforced** A simple GA for the design of • concrete beams
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Notations

†(ref) = the bibliography item does not belong to my collection of genetic papers.

(ref) = citation source code. ACM = ACM Guide to Computing Literature, EEA = Electrical & Electronics Abstracts, BA = Biological Abstracts, CCA = Computers & Control Abstracts, CTI = Current Technology Index, EI = The Engineering Index (A = Annual, M = Monthly), DAI = Dissertation Abstracts International, P = Index to Scientific & Technical Proceedings, BackBib = Thomas Bäck's unpublished bibliography, Fogel/Bib = David Fogel's EA bibliography, etc

* = only abstract seen.

? = data of this field is missing (BiBTeX-format).

The last field in each reference item in Teletype font is the BiBTeXkey of the corresponding reference.



Appendix A

Abbreviations

The following other abbreviations were used to compress the titles of articles in the permutation title index:

AI	= Artificial Intelligence	Int.	= International
Alg.	= Algorithm(s)	ImPr	= Image Processing
AL	= Artificial Life	JSS	= Job Shop Scheduling
ANN(s)	= Artificial Neural Net(work)(s)	ML	= Machine Learning
Appl.	= Application(s), Applied	Nat.	= Natural
Appr.	= Approach(es)	NN(s)	= Neural Net(work)(s)
Cntr.	= Control, Controlled, = Controlling, Controller(s)	Opt.	= Optimization, Optimal, = Optimizer(s), Optimierung
Coll.	= Colloquium	OR	= Operation(s) Research
Comb.	= Combinatorial	Par.	= Parallel, Parallelism
Conf.	= Conference	Perf.	= Performance
CS(s)	= Classifier System(s)	Pop.	= Population(s), Populational(ly)
Distr.	= Distributed	Proc.	= Proceedings
Eng.	= Engineering	Prog.	= Programming, Program(s), Programmed
EP	= Evolutionary Programming	Prob.	= Problem(s)
ES	= Evolutionsstrategie(n), = Evolution(ary) strategies	QAP	= Quadratic Assignment Problem
Evol.	= Evolution, Evolutionary	Rep.	= Representation(s), Representational(ly)
ExS(s)	= Expert System(s)	SA	= Simulated Annealing
FF(s)	= Fitness Function(s)	Sch.	= Scheduling, Schedule(s)
GA(s)	= Genetic Algorithm(s)	Sel.	= Selection, Selectionism
Gen.	= Genetic(s), Genetical(ly)	Symp.	= Symposium
GP	= Genetic Programming	Syst.	= System(s)
Ident.	= Identification	Tech.	= Technical, Technology
Impl.	= Implementation(s)	TSP	= Travel(l)ing Salesman Problem

Appendix B

Bibliography entry formats

footnotesize This documentation was prepared with L^AT_EX and reproduced from camera-ready copy supplied by the editor. The ones who are familiar with B^IB^TE^X may have noticed that the references are printed using `abbrv` bibliography style and have no difficulties in interpreting the entries. For those not so familiar with B^IB^TE^X are given the following formats of the most common entry types. The optional fields are enclosed by "[]" in the format description. Unknown fields are shown by "?". † after the entry means that neither the article nor the abstract of the article was available for reviewing and so the reference entry and/or its indexing may be more or less incomplete.

Book: Author(s), *Title*, Publisher, Publisher's address, year.

Example

John H. Holland. *Adaptation in Natural and Artificial Systems*. The University of Michigan Press, Ann Arbor, 1975.

Journal article: Author(s), Title, *Journal*, volume(number): first page – last page, [month,] year.

Example

David E. Goldberg. Computer-aided gas pipeline operation using genetic algorithms and rule learning. Part I: Genetic algorithms in pipeline optimization. *Engineering with Computers*, 3(?):35–45, 1987. †.

Note: the number of the journal unknown, the article has not been seen.

Proceedings article: Author(s), Title, editor(s) of the proceedings, *Title of Proceedings*, [volume,] pages, location of the conference, date of the conference, publisher of the proceedings, publisher's address.

Example

John R. Koza. Hierarchical genetic algorithms operating on populations of computer programs. In N. S. Sridharan, editor, *Eleventh International Joint Conference on Artificial Intelligence (IJCAI-89)*, pages 768–774, Detroit, MI, 20.-25. August 1989. Morgan Kaufmann, Palo Alto, CA. †.

Technical report: Author(s), Title, type and number, institute, year.

Example

Thomas Bäck, Frank Hoffmeister, and Hans-Paul Schwefel. Applications of evolutionary algorithms. Technical Report SYS-2/92, University of Dortmund, Department of Computer Science, 1992.