

An Indexed Bibliography of Genetic Algorithms in the Mediterranean

compiled by

Jarmo T. Alander

Department of Information Technology and Production Economics

University of Vaasa

P.O. Box 700, FIN-65101 Vaasa, Finland

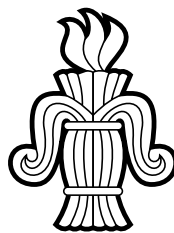
e-mail: Jarmo.Alander@uwasa.fi

www: <http://www.uwasa.fi/~jal>

phone: +358-6-324 8444

fax: +358-6-324 8467

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Warning

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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 6478 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

- ACM: *ACM Guide to Computing Literature*: 1979 – 1993/4
- CA: *Computer Abstracts*: Jan. 1993 – Feb. 1995
- CCA: *Computer & Control Abstracts*: Jan. 1992 – Mar. 1996 (except May -95)
- 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 – Mar. 1996
- P: *Index to Scientific & Technical Proceedings*: Jan. 1986 – Mar. 1996 (except Nov. 1994)
- A: *International Aerospace Abstracts*: Jan. 1995 – May 1995
- N: *Scientific and Technical Aerospace Reports*: Jan. 1993 - Dec. 1995 (except Oct. 1995)
- EI A: *The Engineering Index Annual*: 1987 – 1992
- EI M: *The Engineering Index Monthly*: Jan. 1993 – Mar. 1996

1.1 Your contributions erroneous or missing?

This bibliography 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 Mediterranean 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 author, title, and year 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:

```
@TECHREPORT{gaMEDITERbib,
  KEY = "MEDITER",
  ANNOTE = "*on,*FIN,bibliography /special",
  AUTHOR = "Jarmo T. Alander",
  TITLE = "Indexed Bibliography of Genetic Algorithms in the {Mediterranean}",
  INSTITUTION = "University of Vaasa, Department of Information Technology and Production Economics",
  TYPE = "Report",
  NUMBER = "94-1-MEDITER",
  NOTE = "(\ftp{ftp.uwasa.fi}{cs/report94-1}{gaMEDITERbib.ps.Z})",
  YEAR = 1995
}
```

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>
ftp	Finland	ftp.uwasa.fi	/cs/report94-1	gaMEDITERbib.ps.Z
www	Finland	http://www.cs.hut.fi	~ja/gaMEDITERbib	gaMEDITERbib.html

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 Mediterranean literature. At least the following GA researchers have already kindly supplied their complete autobiographies and/or proofread references to their papers: Dan Adler, Patrick Argos, Jarmo T. Alander, James E. Baker, Wolfgang Banzhaf, Christian Bierwirth, Joachim Born, Ralf Bruns, I. L. Bukatova, Thomas Bäck, 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, Jeffrey Horn, Aristides T. Hatjimihail, Mark J. Jakiela, Richard S. Judson, 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, Ostrowski Tomasz, Kihong Park, Nicholas J. Radcliffe, Colin R. Reeves, David Rogers, Ivan Santibáñez-Koref, Marc Schoenauer, Markus Schwehm, Hans-Paul Schwefel, Michael T. Semertzidis, William M. Spears, Donald S. Szarkowicz, El-Ghazali Talbi, Leigh Tesfatsion, Peter M. Todd, Marco Tomassini, Andrew L. Tuson, Jari Vaario, Gilles Venturini, Hans-Michael Voigt, Roger L. Wainwright, D. Eric Walters, Steward W. Wilson, Xin Yao, and Xiaodong Yin.

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

<i>file</i>	<i>contents</i>
ga94bib.ps.Z	GA in 1994
ga95bib.ps.Z	GA in 1995
ga96bib.ps.Z	GA in 1996
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 (and DDR)
gaGPbib.ps.Z	genetic programming
gaIMPLEbib.ps.Z	implementations of GA
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)
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: Other indexed GA subbibliographies.

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` programs [8].

<i>string</i>	<i>field</i>	<i>class</i>
<code>in Italian</code>	<code>NOTE</code>	GAs in Italian
<code>*ITA</code>	<code>ANNOTE</code>	GAs in Italy
<code>*ESP</code>	<code>ANNOTE</code>	GAs in Spain
<code>*POR</code>	<code>ANNOTE</code>	GAs in Portugal
<code>*GRE</code>	<code>ANNOTE</code>	GAs in Greece
<code>*ISR</code>	<code>ANNOTE</code>	GAs in Israel
<code>*TUR</code>	<code>ANNOTE</code>	GAs in Turkey
<code>*CYP</code>	<code>ANNOTE</code>	GAs in Cyprus
<code>*SLOVE</code>	<code>ANNOTE</code>	GAs in Slovenia
<code>*CRO</code>	<code>ANNOTE</code>	GAs in Croatia
<code>*ROM</code>	<code>ANNOTE</code>	GAs in Romania
<code>*LYB</code>	<code>ANNOTE</code>	GAs in Lybanon

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

Chapter 3

Statistical summaries

This chapter gives some general statistical summaries of genetic algorithms in the Mediterranean literature. More detailed indexes can be found in the next chapter.

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

- **GAs in Croatia** 5 references ([9]-[13])
- **GAs in Cyprus** 3 references ([14]-[16])
- **GAs in Greece** 18 references ([17]-[34])
- **GAs in Israel** 34 references ([35]-[68])
- **GAs in Italy** 147 references ([69]-[215])
- **GAs in Portugal** 11 references ([216]-[226])
- **GAs in Romania** 9 references ([227]-[235])
- **GAs in Slovenia** 17 references ([236]-[252])
- **GAs in Spain** 44 references ([253]-[296])
- **GAs in Turkey** 10 references ([297]-[306])

Observe that each reference is included (by the computer) only to one class (see also the queries for classification in table 2.1).

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>
book	1
part of a collection	6
journal article	70
proceedings article	185
report	30
PhD thesis	3
MSc thesis	2
others	1
<i>total</i>	298

Table 3.1: Distribution of publication type.

3.2 Annual distribution

Table 3.2 gives the number of genetic algorithms in the Mediterranean 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>
1989	4	1990	10
1991	21	1992	29
1993	47	1994	72
1995	96	1996	19
<i>total</i>			298

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.

engineering	47
neural networks	35
parallel GA	25
robotics	20
machine learning	18
control	17
optimization	12
scheduling	11
comparison	11
hybrid	10
review	8
implementation	7
economics	7
CAD	7
fuzzy sets	6
filters	6
crossover	6
controllers	6
classifiers	6
telecommunications	5
signal processing	5
population size	5
medicine	5
fuzzy systems	5
analysing GA	5
QAP	5
others	526

Table 3.3: The most popular subjects.

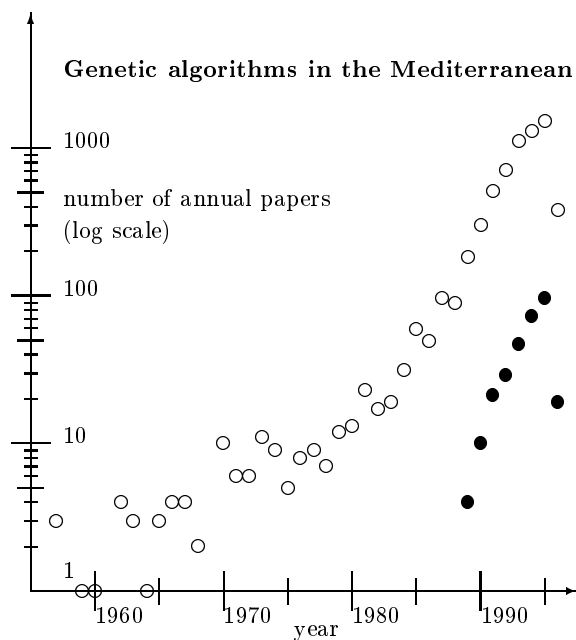


Figure 3.1: The number of papers applying **genetic algorithms in the Mediterranean** (●) ○ = total GA papers. Observe that the last two years are most incomplete in the database.

3.4 Authors

Table 3.4 gives the most productive authors.

total number of authors	421
Dorigo, Marco	34
Davidor, Yuval	21
Maniezzo, Vittorio	19
Colorni, Alberto	11
Filipič, Bogdan	8
Petridis, V.	8
Parisi, Domenico	7
Tarantino, E.	7
Aldana Montes, José Francisco	6
Herrera, F.	6
Lozano, M.	6
Miranda, V.	6
Proenca, Luis Miguel	6
Tettamanzi, Andrea	6
Verdegay, J. L.	6
Hatjimihail, Aristides T.	5
14 authors	4
26 authors	3
60 authors	2
304 authors	1

Table 3.4: The most productive genetic algorithms in the Mediterranean 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>Total</i>	298
Italy	147
Spain	44
Israel	34
Greece	19
Slovenia	17
Portugal	11
Turkey	10
Romania	9
Croatia	6
Cyprus	3
Holland	3
United Kingdom	3
Japan	2
United States	2
Austria	1
Canada	1
Czech Republic	1
Denmark	1
Singapore	1
Switzerland	1
Venezuela	1
Unknown country	-19

Table 3.5: The geographical distribution of authors.

3.6 Conclusions and future

The editor believes that this bibliography contains references to most genetic algorithms in the Mediterranean contributions upto and including the year 1995 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.

Genetic Algorithms and Robotics: A heuristic strategy for optimization, [51]

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.

- Adaptive Behavior, [76]
AIAA Journal, [114]
Artificial Intelligence, [181]
Biological Cybernetics, [204]
Chromatographia, [226]
Clinical Chemistry, [29, 30]
Complex Systems, [53, 68]
Computer, [101]
Computers in Chemical Engineering, [36]
Computers & Operations Research, [112, 65]
Electr. Power Syst. Res.Eng. Jpn, [244]
Electric Power Systems Research, [41, 45]
Electronics Letters, [298]
Elektroteh. Vestn. (Slovenia), [243]
Eur. Trans. Telecommun. Relat. Technol. (Italy), [78]
European Journal of Operational Research, [120]
Evolutionary Computation, [185]
Fuzzy Sets & Artificial Intelligence, [260]
IEE Proceedings, Generation, Transmission and Distrib. (UK), [18]
IEEE Potentials, [26]
IEEE Transactions on Biomedical Engineering, [141]
IEEE Transactions on Magnetics, [108, 192]
IEEE Transactions on Neural Networks, [87, 14]
IEEE Transactions on Power Systems, [217, 283, 28]
IEEE Transactions on Systems, Man, and Cybernetics, [285, 183, 251]
Informatica y Automatica (Spain), [294]
Information Sciences, [40]
Informática y Automática (Spain), [287]
Int. J. Mod. Phys. C, Phys. Comput. (Singapore), [73]
Int. J. Power Energy Syst. (USA), [278]
International Journal of Approximative Reasoning, [115]
International Journal of Electronics, [110, 24]
International Journal of Production Economics, [43]
J. Acoust. Soc. Am., [82]
J. Aircraft, [143]
J. Comput. Acoust. (Singapore), [97]
Journal of Computing in Civil Engineering, [21]
Journal of the Acoustics Society of America, [115]
Journal of the Institute of Systems, Control, and Information Engineers (Japan), [64]
Journal of Wind Engineering and Industrial Aerodynamics, [88]
Machine Learning, [132]
Meccanica, [135]
Microelectron. J. (UK), [279]
Microprocessing and Microprogramming EURO-Micro Journal, [175]
Network: Computation in Neural Systems, [205]
Neural Network World, [242, 213]
Neural Parallel Sci. Comput, [236]
Note Recensioni e Notizie, [161]
Optics Letters, [66]
Parallel Processing Letters, [159]
Pattern Recognit. Lett. (Netherlands), [140]
Pattern Recognition Letters, [119]
Power Systems Research, [35]
Rivista di Ricerca Operativa, [196]
Sens. Actuators A. Phys. (Switzerland), [289]
Software - Practice and Experience, [153, 155]
The European Journal of Finance, [86]
Transactions of the Institute of Measurement and Control (UK), [158]
total 71 articles in 58 journals

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

Imperial College for Science, [48]

Politecnico di Milano, [187]

Universidad Politécnica de Madrid, [255]

total 3 thesis in 3 schools

4.3.2 Master's theses

This list includes also "Diplomarbeit", "Tech. Lic. Theses", etc.

The Hebrew University of Jerusalem, [37]

University of Genova?, [75]

total 2 thesis in 2 schools

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.

Aristotle University of Thessaloniki, [17]

Hellenic Complex Systems Laboratory, [19, 31]

Imperial College, [47]

Institute of Psychology CNR, [202]

International Computer Science Institute, [182, 186]

International Computer Science Institute (ICSI), [176]

LASPP-FER, [246]

Politecnico di Milano, [162]

Politecnico di Milano, [163, 164, 166, 168, 170, 178, 180, 184, 193, 195, 198]

The Weismann Institute of Science, [55]

The Weizmann Institute of Technology, [62]

Universidad de Málaga, [253, 258, 286]

Universita degli Studi di Milano, [92]

University of Granada, [281, 282]

Utrecht University, [218]

total 30 reports in 15 institutes

4.5 Patents

The following list contains the names of the patents of genetic algorithms in the Mediterranean. 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 Mediterranean authors and references to their known contributions.

- | | |
|--------------------------------|--|
| Abbattista, F., | [69, 140] |
| Abbattista, Fabio, | [102, 121, 148] |
| Abbattista, Nicola, | [102] |
| Adamidis, Panagiotis, | [17] |
| Agapie, Alexandru, | [230] |
| Aharoni, Gad, | [42] |
| Aizpuru, J. R. Z., | [262] |
| Alba Torres, Enrique A., | [263, 286, 287, 288] |
| Alçi, M., | [303] |
| Aldana Montes, José Francisco, | [253, 258, 263, 264, 286, 288] |
| Alfieri, C. A., | [126] |
| Alippi, Cesare, | [101] |
| Annicchiarico, W., | [292] |
| Arnone, Salvatore, | [70, 93, 213] |
| Arroyo, J. M., | [283] |
| Aydin, K. K., | [300] |
| Aytekin, T., | [301] |
| Baiardi, Fabrizio, | [116] |
| Baiardi, F., | [83, 207] |
| Bakirtzis, A. G., | [25, 283, 28] |
| Bakirtzis, A., | [18, 20] |
| Balio, R. Del, | [79, 113, 159, 160] |
| Baracco, P., | [126] |
| Barak, Amnon, | [42] |
| Bassani, Domenico, | [135] |
| Bazgan, Chistina, | [232] |
| Beltratti, Andrea, | [201] |
| Bene, G. Di, | [107, 130] |
| Ben-Kiki, Oren, | [61] |
| Beritelli, Francesco, | [103] |
| Bernal-Agustin, J. L., | [278] |
| Bersini, Hugues, | [156] |
| Bertoni, Alberto, | [181, 182] |
| Bifulco, Andrea, | [104] |
| Biro, O., | [192] |
| Blagajac, S., | [11] |
| Bonarini, Andrea, | [71, 149] |
| Bontempi, Bruno, | [72] |
| Botta, M., | [190] |
| Bratko, Ivan, | [248] |
| Braunstingl, R., | [274] |
| Buiu, C., | [234] |
| Buttitta, B., | [157] |
| Cagnoni, S., | [141] |
| Calabretta, R., | [105] |
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| Caponetto, R. C., | [106] |
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| Carlo, A. Di, | [161] |
| Carvalho, Luis, | [220] |
| Casale, Salvatore, | [103] |
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| Catania, V., | [128] |
| Caulfield, H. John, | [66] |
| Cecconi, F., | [150] |
| Cecconi, Federico, | [208, 209] |
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| Cerrolaza, M., | [292] |
| Chiaberge, M., | [107, 130, 144] |
| Chincarini, A., | [75, 108] |
| Christodoulou, N., | [27] |
| Cioppa, A. Della, | [113] |
| Ciuffolini, D., | [207] |
| Coli, M., | [109] |
| Colombetti, Marco, | [76, 176, 177, 186] |
| Colorni, Alberto, | [77, 95, 120, 163, 165, 171, 173, 180, 184, 195, 196] |
| Comellas, F., | [290] |
| Concilio, A., | [131] |
| Conejo, A. J., | [283] |
| Costamagna, E., | [129] |
| Cotta Porrás, Carlos, | [253, 264] |
| Crawford, Kelly D., | [10] |
| Cuesta, P., | [259, 273] |
| Cumming, Andrew, | [229] |
| Cuppini, M., | [78] |
| Curatelli, F., | [110] |
| Dalbis, Donato, | [148] |
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| Davidor, Yuval, | [38, 42, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64] |
| DeFalco, Ivan, | [79] |
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| DellaCioppa, A., | [143] |
| Della Cioppa, A., | [151] |
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| Eker, I., | [304, 305] |
| Elbaum, R., | [44] |
| Elmakis, David, | [35, 41, 45] |
| Ersoy, Cem, | [299] |
| Ersoy, O. K., | [298] |
| Fabbricatore, P., | [108] |
| Fagarasan, Florin, | [230] |
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Chapter 5

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- [203] **Adaptive** A model for the emergence of sex in evolving networks: ● advantage or random drift?
- [55] – An intuitive introduction to GAs as ● opt. procedures
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- [117] **agricultural** GAs in the role of intelligent regional adaptation agents for ● support syst.
- [113] **airfoil** A par. GA for transonic ● opt.
- [147] – Transonic ● design by means of a GA
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 [290] – Using GAs to • constant weight codes
- [42] **destructive** Selectively • re-start
 [10] **Detecting** multiple outliers in regression data using GAs
- [103] **detection** Robust phase reversal tone • using soft computing
 [141] **detectors** Gen. design of optimum linear and nonlinear QRS •
- [280] **determination** Two spacecraft attitude • using NNs and ImPr
 [210] **develop** Auto-teaching: networks that • their own teaching input
 [176] **Developing** Robot shaping: • situated agents through learning
 [125] **devising** An integrated framework for • optimum generation schedules
- [91] **digital circuits** GATTO: an intelligent tool for automatic test pattern generation for •
 [81] **digital filters** Evol. design of FIR • with power-of-two coefficients
- [237, 239] **Discovering** dynamics with gen. prog.
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- [98] **disjunctive** Learning • concepts by means of GAs
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 [14] **disorders** Gen. -based machine learning for the assessment of certain neuromuscular •
- [18] **dispatch** GA solution to the economic • problem
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 [224] **dispersed** Dynamic planning of distribution networks including • generation
- [36] **distillation** Feedforward cntr. design for • syst. aided by disturbance cost contour maps
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- [221] **distribution** A general methodology for • planning under uncertainty, including GAs and fuzzy models in a multi-criteria environment
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- [82] **distributions** Inversion of seismoacoustic data using GAs and a posteriori probability •
- [36] **disturbance** Feedforward cntr. design for distillation syst. aided by • cost contour maps
- [282] **diversity** Dynamic and heuristic crossover operators for cntr. the • and convergence of real-coded GAs
 [281] – Fuzzy connectives based crossover operators to model GAs pop. •
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 [99] – Opt. • decomposition for par. multiblock flow-field solvers using GAs
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- [248] **dynamic** Automated synthesis of cntr. for nonlinear • syst.
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- [237, 239] **dynamics** Discovering • with gen. prog.
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- [215] **echo** Neural inhabitants of MR and • images segment cardiac structures
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 [136] **Efficient** GA design for power-of-two FIR filters
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- [268, 276] **Evolutionary-based** learning appl. to fuzzy cntr.
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- [203] **evolving** A model for the emergence of sex in • networks: Adaptive advantage or random drift?
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- [200] **financial** Gen. neural networks for • markets: Some results
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- [124] **flowshop** Perf. of GAs in the solution of permutation • problems
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- [188] **foraging** Emergence of nest-based • strategies in ecosystem. of neural networks
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- [100] **Formal** models of sel. in GAs
- [166, 174] **formation** New perspectives about default hierarchies • in learning classifier syst.
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- [86] **framework** An evol. alg. for portfolio sel. in a downside risk •
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- [219] **fuzzy models** GAs and • – an appl. to gas and electricity distribution planning under uncertainty
- [275] **fuzzy-logic** Tuning • cntr. by GAs
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- [219] **gas** GAs and fuzzy models – an appl. to • and electricity distribution planning under uncertainty
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- [262] **GA/TS** a hybrid appr. for job shop sch. in a production syst. .
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- [245] **gear** Design and opt. of planetary • trains
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- [70] **global** Highly par. evol. alg. for • opt. , symbolic inference and non-linear regression
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- [77, 184] **hard** Heuristics from nature for • comb. problems
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- [215] **images** Neural inhabitants of MR and echo • segment cardiac structures
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- [279] **incompletely** A GA for reducing the number of states in • specified finite state machines
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- [80] **induction** A GA appr. to design flux observer for • servo motors
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- [305] **industries** Multi-rate multi-loop explicit adaptive cascade cntr. for process control •
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- [262] **job shop scheduling** GA/TS: a hybrid appr. for • in a production syst. .
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- [47] **length** GAs for unfixed • order dependent Rep.
- [246] – Neural networks without design – evol. with GAs and genotypes of variable •
- [150] **life** Edge eaters + jpeg: an artificial • appr. to image compression
- [65] **linear** GA for • and cyclic assignment problem
- [141] – Gen. design of optimum • and nonlinear QRS detectors
- [144] **linear controllers** A comparison of neural networks, • GAs and simulated annealing for real time cntr.
- [263] **load** A GA for • balancing in par. query evaluation for deductive relational databases
- [44] **local area networks** Topological design of • using GAs
- [299] **location-problems** Solving concentrator • using GAs
- [104] **locations** Opt. of exciter • and force appropriation in phase-resonance modal testing using the GA
- [287] **los** Aplicación de • alg. os genéticos para el diseño de redes neuronales [Appl. of GAs for the design of neural networks]
- [286] • alg. os genéticos como heurístico en problemas de optimización
- [269] **LVQ** G-LVQ, a combination of GAs and •
- [183] **Machine** Gen. -based • Learning and Behaviour Based Robotics: A New Synthesis
- [233] – Run-time autotuning of a robot cntr. using a gen. based • learning cntr. scheme
- [170] **machine learning** A par. distr. environment for gen. -based •
- [14] – Gen. -based • for the assessment of certain neuromuscular disorders
- [72] • and GAs: an appl. to character recognition
- [175] – Using transputers to increase speed and flexibility of gen. -based • syst.
- [279] **machines** A GA for reducing the number of states in incompletely specified finite state •
- [238] **management** Task sch. and resource • in ship repair using a GA
- [52] **manipulators** An evol. standing on the design of redundant •
- [300] – GA based redundancy resolution of robot •
- [207] **mapping** Nested hybrid GAs for syst. configuration and prog. • in massively par. syst.
- [36] **maps** Feedforward cntr. design for distillation syst. aided by disturbance cost contour •
- [119] – Topological clustering of • using a GA
- [301] **map-trees** An appl. of gen. prog. to the 4-OP problem using •
- [200] **markets** Gen. neural networks for financial • Some results

- [207] **massively** Nested hybrid GAs for syst. configuration and prog. mapping in • par. syst.
- [214] • par. evol. alg.
- [232] **maximum** A GA for the • clique problem
- [211] **means** Aerodynamic shape opt. by • of a GA
- [142] – Aerodynamic shape opt. by • of hybrid GA
- [148] – Improving the GAs by • of a cooperative model
- [98] – Learning disjunctive concepts by • of GAs
- [88] – Opt. of wind turbine positioning in large windfarms by • of GA
- [147] – Transonic airfoil design by • of a GA
- [258] **memoria** Alg. os genéticos paralelos para problemas combinatorios sobre sistemas multiprocesadores de • distribuida
- [259] **Mesh** generation and adaptive remeshing by GAs on transonic flow simulation
- [167] **Message-based** bucket brigade: An alg. for the apportionment of credit problem
- [221] **methodology** A general • for distribution planning under uncertainty, including GAs and fuzzy models in a multicriteria environment
- [192] **methods** Global opt. • for computational electromagnetics
- [229] – Two solutions to the general timetable problem using evol. •
- [212] **migration** An experimental analysis of the effects of • in par. GAs
- [159] **MIMD** Simulation of GAs on • Multicomputers
- [220] **minimum** Dynamic planning of distribution networks for • regret strategies
- [107] **Mixing** fuzzy, neural and GAs in an integrated design environment for intelligent cntr.
- [253] **mixtas** Diseño y evaluación de técnicas • basadas en algoritmos genéticos y de branch-and-bound para la resolución de problemas de optimización combinatoria
- [104] **modal** Opt. of exciter locations and force appropriation in phase-resonance • testing using the GA
- [92] **model** A distr. • for sel. in evol. alg.
- [57] – A Nat. ly Occuring Niche & Species Phenomenon: The • and First Results
- [203] – A • for the emergence of sex in evolving networks: Adaptive advantage or random drift?
- [105] – An artificial life • for predicting the tertiary structure of unknown proteins that emulates the folding process
- [64] – An ecological • for evol. computing
- [102] – An evol. and cooperative agents • for opt.
- [281] – Fuzzy connectives based crossover operators to • GAs pop. diversity
- [148] – Improving the GAs by means of a cooperative •
- [194] **modeling** The rise of interaction - Intrinsic simulation • of the onset of interacting behaviour
- [226] **Modelling** chromatographic behaviour as a function of pH and solvent composition in RPLC
- [221] **models** A general methodology for distribution planning under uncertainty, including GAs and fuzzy • in a multicriteria environment
- [100] – Formal • of sel. in GAs
- [292] – Opt. of structural and finite element • via GAs
- [137] – Qualitative sel. strategies in gen. -based evol. economic •
- [291] **modular** Simulated evol. of • networks
- [157] **Monreale** A new GA for the solution of channel routing problems
- [215] **MR** Neural inhabitants of • and echo images segment cardiac structures
- [122] **multi objective** Hybrid GA for • aerodynamic shape opt.
- [99] **multiblock** Opt. domain decomposition for par. • flow-field solvers using GAs
- [159] **Multicomputers** Simulation of GAs on MIMD •
- [221] **multi-criteria** A general methodology for distribution planning under uncertainty, including GAs and fuzzy models in a • environment
- [302] **multicriteria** A GA for • Inventory Classification
- [305] **multi-loop** Multi-rate • explicit adaptive cascade cntr. for process control industries
- [304] – Self-tuning robust • AVRS for synchronous generators in primary regulation for power syst.
- [267] **multi-objective** Fuzzy • solid transportation problem via evolutive prog.
- [12] **Multiple** vehicle dispatch problem and GAs
- [258] **multiprocesadores** Alg. os genéticos paralelos para problemas combinatorios sobre sistemas • de memoria distribuida
- [305] **Multi-rate** multi-loop explicit adaptive cascade cntr. for process control industries
- [217] **multistage** GAs in opt. • distribution network planning
- [297] **multivariable** Opt. of • functions
- [187] **Natural** Opt. , Learning and • Alg.
- [95] **naturali** Gli alg. i • come strumento di ottimizzazione
- [180] – Introduzione agli algoritmi •
- [57] **Naturally** A • Occuring Niche & Species Phenomenon: The Model and First Results
- [77, 184] **nature** Heuristics from • for hard comb. problems
- [188] **nest-based** Emergence of • foraging strategies in ecosystem. of neural networks
- [207] **Nested** hybrid GAs for syst. configuration and prog. mapping in massively par. syst.
- [217] **network** GAs in opt. multistage distribution • planning
- [298] – Optimised competitive feature vector •
- [278] – Opt. of power distribution • design by appl. of GAs
- [203] **networks** A model for the emergence of sex in evolving • Adaptive advantage or random drift?
- [198] – Anna Eleonora: Gen. Evol. of Feedforward Neural •
- [210] – Auto-teaching: • that develop their own teaching input
- [204] – Evidence of hyperplanes in the gen. learning of neural •
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- [291] – Simulated evol. of modular •
- [244] – Superfast autoconfiguring artificial neural • and their appl. to power syst.
- [280] – Two spacecraft attitude determination using neural • and ImPr
- [198] **Neural** Anna Eleonora: Gen. Evol. of Feedforward • Networks
- [204] – Evidence of hyperplanes in the gen. learning of • networks
- [236] – Gen. synthesis of task-oriented • networks
- [107] – Mixing fuzzy, • and GAs in an integrated design environment for intelligent cntr.
- [215] • inhabitants of MR and echo images segment cardiac structures
- [244] – Superfast autoconfiguring artificial • networks and their appl. to power syst.
- [280] – Two spacecraft attitude determination using • networks and ImPr
- [68] **neural nets** Using the functional behavior of neurons for gen. recombination in • training
- [295] **neural network** Gen. synthesis of discrete-time recurrent •
- [293] – Opt. of a competitive learning • by GAs
- [144] **neural networks** A comparison of • linear cntr. , GAs and simulated annealing for real time cntr.
- [33] – A GA for training recurrent •
- [32] – A hybrid GA for training •
- [287] – Aplicación de los alg. os genéticos para el diseño de redes neuronales [Appl. of GAs for the design of •
- [146] – Artistic design with GAs and •
- [67] – Design architectures and training of • with a distr. GA
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- [188] – Emergence of nest-based foraging strategies in ecosystem. of •
- [242] – Evol. design of appl. -specific • A gen. appr.
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- [189] – Exploiting domain knowledge, • and GAs to harvest traffic simulation results
- [87] – Gen. evol. of the topology and weight distribution of •
- [240] – Gen. synthesis of task oriented •
- [200] – Gen. • for financial markets: Some results
- [16] • GAs and the K-means alg. : in search of data classification
- [246] • without design - evol. with GAs and genotypes of variable length
- [205] – Recombination and unsupervised learning: effects of crossover in the gen. opt. of •
- [197] – Searching among Search Spaces: hastening the gen. evol. of feedforward •
- [202] – “Sexual” reproduction in •
- [287] **neuronales** Aplicación de los alg. os genéticos para el diseño de redes • [Appl. of GAs for the design of neural networks]
- [68] **neurons** Using the functional behavior of • for gen. recombination in neural nets training
- [57] **Niche** A Nat. ly Occuring • & Species Phenomenon: The Model and First Results

- [89] **NN's** and GAs: evolving co-operative behaviour in adaptive learning agents
- [131] **noise** Position and number opt. of actuators and sensors in an active • cntr. syst. by GAs
- [34] **noise-control** A GA for opt. positioning of actuators in active • – results from the ASANCA project
- [185] **non-genetic** Gen. and • operators in ALECSYS
- [248] **nonlinear** Automated synthesis of cntr. for • dynamic syst.
- [141] – Gen. design of optimum linear and • QRS detectors
- [70] **non-linear** Highly par. evol. alg. for global opt. , symbolic inference and • regression
- [127] **n-step** Gen. opt. for the design for an • fuzzy cntr.
- [279] **number** A GA for reducing the • of states in incompletely specified finite state machines
- [131] – Position and • opt. of actuators and sensors in an active noise cntr. syst. by GAs
- [14] **neuromuscular** Gen. -based machine learning for the assessment of certain • disorders
- [216] **object-oriented** GAs, classifiers and par. – An • appr.
- [209] **objects** Evolving organisms that can reach for •
- [57] **Occuring** A Nat. ly • Niche & Species Phenomenon: The Model and First Results
- [194] **onset** The rise of interaction - Intrinsic simulation modeling of the • of interacting behaviour
- [41] **open-loop** GA for • distribution syst. design
- [185] **operators** Gen. and non-gen. • in ALECSYS
- [61] – The interplay among the GA • info-theory tools used in a holistic way
- [66] **optical** GAs for • pattern recognition
- [34] **optimal** A GA for • positioning of actuators in active noise-cntr. – results from the ASANCA project
- [45] – GA for • sectionalizing in radial distribution syst. with alternative supply
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- [298] **Optimised** competitive feature vector network
- [253] **optimización** Diseño y evaluación de técnicas mixtas basadas en algoritmos genéticos y de branch-and-bound para la resolución de problemas de • combinatoria
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- [151] **optimization** A comparative analysis of evol. alg. for function •
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- [129] – GAs for telecommunication network •
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- [30] – GAs-based design and • of statistical quality-cntr. procedures
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- [122] – Hybrid GA for multi objective aerodynamic shape •
- [296] – Inductive learning appl. to fossil power plants cntr. •
- [187] • Learning and Nat. Alg.
- [293] • of a competitive learning neural network by GAs
- [29] • of alternative quality cntr. procedures using GAs [Abstract]
- [104] • of exciter locations and force appropriation in phase-resonance modal testing using the GA
- [297] • of multivariable functions
- [278] • of power distribution network design by appl. of GAs
- [292] • of structural and finite element models via GAs
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- [131] – Position and number • of actuators and sensors in an active noise cntr. syst. by GAs
- [205] – Recombination and unsupervised learning: effects of crossover in the gen. • of neural networks
- [134] – Routing • by concurrent GAs
- [274] **optimized** A wall following robot with a fuzzy logic cntr. • by a GA
- [55] **optimizing** An intuitive introduction to GAs as adaptive • procedures
- [125] **optimum** An integrated framework for devising • generation schedules
- [141] – Gen. design of • linear and nonlinear QRS detectors
- [47] **order** GAs for unfixed length, • dependent Rep.
- [74] – GAs for cntr. • reduction
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- [285] **ordering** Learning Bayesian network structures by searching for best • with GA
- [172] **Organisation** of robot behaviour through gen. learning process
- [209] **organisms** Evolving • that can reach for objects
- [240] **oriented** Gen. synthesis of task • neural networks
- [95] **ottimizzazione** Gli alg. i nat. i come strumento di •
- [75] • di cavitá RF per acceleratori di particelle
- [10] **outliers** Detecting multiple • in regression data using GAs
- [179] **overview** Par. GAs: Introduction and • of current research
- [258] **para** Alg. os genéticos paralelos • problemas combinatorios sobre sistemas multiprocesadores de memoria distribuida
- [287] – Aplicación de los alg. os genéticos • el diseño de redes neuronales [Appl. of GAs for the design of neural networks]
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- [258] **paralelos** Alg. os genéticos • para problemas combinatorios sobre sistemas multiprocesadores de memoria distribuida
- [263] **parallel** A GA for load balancing in • query evaluation for deductive relational databases
- [170] – A • distr. environment for gen. -based machine learning
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- [113] – A • GA for transonic airfoil opt.
- [212] – An experimental analysis of the effects of migration in • GAs
- [111] – Comparing • tabu search and • GAs on the task allocation problem
- [70] – Highly • evol. alg. for global opt. , symbolic inference and non-linear regression
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- [73] • architectures and intrinsically par. alg. : GAs
- [179] • GAs: Introduction and overview of current research
- [96] • tabu search versus par. ES
- [99] – Opt. domain decomposition for • multiblock flow-field solvers using GAs
- [73] – Par. architectures and intrinsically • alg. : GAs
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- [168, 169] – ALECSYS: A • laboratory for learning CSs
- [160] – Testing • evol. strategies on the QAP
- [13] – The appl. of • GA to capacited vehicle routing problem
- [154] **Parallelisation** of GA for aerodynamic design opt.
- [216] **parallelism** GAs, classifiers and • – An object-oriented appr.
- [181, 182] – Implicit • in GAs
- [116] – Q-learning and • in evol. rule based syst.
- [250] **Parameter** An Interactive GA of Cntr. • Opt.
- [62] – An investigation of a GA in continuous • space
- [249] **parameters** Gen. opt. of cntr. •
- [97] – Global inversion by GAs for both source position and environmental •
- [75] **particelle** Ottimizzazione di cavitá RF per acceleratori di •
- [139] **particle** Using gen. in • physics
- [306] **partitioning** A GA for classification by feature •
- [24] – An adaptive GA for VLSI circuit •
- [110] – Impl. and evaluation of GAs for syst. •
- [261] **passing** GAs on lan-message • architectures using PVM: Appl. to the routing problem
- [48] **path-planning** GAs for order dependent processes appl. to robot •
- [66] **pattern** GAs for optical • recognition
- [186] **perform** Training agents to • sequential behavior

- [76] – Training agents to • sequential behaviour
- [9] **Performance** of GA used for analysis of call and service processing in telecommunications
- [124] • of GAs in the solution of permutation flowshop problems
- [63] – The ECOlogical framework II: Improving GA • at virtually zero cost
- [124] **permutation** Perf. of GAs in the solution of • flowshop problems
- [166, 174] **perspectives** New • about default hierarchies formation in learning classifier syst.
- [226] **pH** Modelling chromatographic behaviour as a function of • and solvent composition in RPLC
- [103] **phase** Robust • reversal tone detection using soft computing
- [104] **phase-resonance** Opt. of exciter locations and force appropriation in • modal testing using the GA
- [57] **Phenomenon** A Nat. ly Occuring Niche & Species • The Model and First Results
- [139] **physics** Using gen. in particle •
- [273] **pitfalls** GAs: A stochastic improvement technique. Tools, skills, • and examples
- [245] **planetary** Design and opt. of • gear trains
- [221] **planning** A general methodology for distribution • under uncertainty, including GAs and fuzzy models in a multi-criteria environment
- [220] – Dynamic • of distribution networks for minimum regret strategies
- [224] – Dynamic • of distribution networks including dispersed generation
- [219] – GAs and fuzzy models – an appl. to gas and electricity distribution • under uncertainty
- [217] – GAs in opt. multistage distribution network •
- [281] **population** Fuzzy connectives based crossover operators to model GAs • diversity
- [235] – Info theory analysis of the convergence and learning properties of a certain class of GAs in continuous space and infinite • assumption
- [38] **population Size** Opt. • under constant computation cost
- [93] **populations** Towards a fuzzy government of gen. •
- [213] **portfolio** A gen. appr. to • sel.
- [86] – An evol. alg. for • sel. in a downside risk framework
- [118] – Distr. GAs with an appl. to • sel. problems
- [97] **position** Global inversion by GAs for both source • and environmental parameters
- [131] • and number opt. of actuators and sensors in an active noise cntr. syst. by GAs
- [34] **positioning** A GA for opt. • of actuators in active noise-cntr. – results from the ASANCA project
- [88] – Opt. of wind turbine • in large windfarms by means of GA
- [82] **posteriori** Inversion of seismoacoustic data using GAs and a • probability distributions
- [278] **power** Opt. of • distribution network design by appl. of GAs
- [244] – Superfast autoconfiguring ANNs and their appl. to • syst.
- [296] **power plants** Inductive learning appl. to fossil • cntr. opt.
- [222] **power systems** Derivation of classification structures for fast evaluation of dynamic security assessment in • using GAs
- [225] – Evol. computation in •
- [304] – Self-tuning robust multi-loop AVRS for synchronous generators in primary regulation for •
- [136] **power-of-two** Efficient GA design for • FIR filters
- [81] – Evol. design of FIR digital filters with • coefficients
- [17] **prallel** Review of • GAs bibliography
- [105] **predicting** An artificial life model for • the tertiary structure of unknown proteins that emulates the folding process
- [114] **pretest** Gen. -alg. -based procedure for • analysis
- [304] **primary** Self-tuning robust multi-loop AVRS for synchronous generators in • regulation for power syst.
- [277] **probabilistic** Fuzzy and • reasoning in simple learning CSs
- [82] **probability** Inversion of seismoacoustic data using GAs and a posteriori • distributions
- [85] **problème** Une appl. des alg. évolutifs à un • d'approvisionnement
- [232] **problem** A GA for the maximum clique •
- [20] – A GA solution to the unit commitment •
- [301] – An appl. of gen. prog. to the 4-OP • using map-trees
- [27] – Combination of GAs and CLP in the vehicle-fleet sch. •
- [111] – Comparing par. tabu search and parallel GAs on the task allocation •
- [223] – Comparison of two Rep. for the simple and the enhanced job-shop Sch. •
- [90] – Evol. solutions to a highly constrained comb. •
- [11] – GA appr. to solving multiple vehicle routing •
- [18] – GA solution to the economic dispatch •
- [165] – GAs: A new appr. to the time-table •
- [167] – Message-based bucket brigade: An alg. for the apportionment of credit •
- [12] – Multiple vehicle dispatch • and GAs
- [120, 195] – ALGODESK: an experimental comparison of eight evol. heuristics appl. to the QAP •
- [13] – The appl. of par. GA to capacited vehicle routing •
- [256] – The routing • in traffic cntr. using GAs
- [193] – The Rudes and the Shrewds: an experimental comparison of several evol. heuristics appl. to the QAP •
- [229] – Two solutions to the general timetable • using evol. methods
- [22] – Varying quality function in GAs and the cutting •
- [196] **problema** Gli algoritmi gen. i e il • dell'orario
- [258] **problemas** Alg. os genéticos paralelos para • combinatorios sobre sistemas multiprocesadores de memoria distribuida
- [253] – Diseño y evaluación de técnicas mixtas basadas en algoritmos genéticos y de branch-and-bound para la resolución de • de optimización combinatoria
- [286] – Los alg. os genéticos como heurístico en • de optimización
- [78] **problems** A GA for channel assignment •
- [260] – Applying GAs in fuzzy opt. •
- [118] – Distr. GAs with an appl. to portfolio sel. •
- [171] – GAs and highly constrained • The time-table case
- [77, 184] – Heuristics from nature for hard comb. •
- [157] – Monreale: A new GA for the solution of channel routing •
- [163] – On the use of GAs to solve the time-table •
- [124] – Perf. of GAs in the solution of permutation flowshop •
- [114] **procedure** Gen. -alg. -based • for pretest analysis
- [55] **procedures** An intuitive introduction to GAs as adaptive opt. •
- [19] – Design of statistical quality cntr. • using GAs
- [30] – GAs-based design and opt. of statistical quality-cntr. •
- [29] – Opt. of alternative quality cntr. • using GAs [Abstract]
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- [156] – GAs for • cntr. : A survey
- [305] – Multi-rate multi-loop explicit adaptive cascade cntr. for • control industries
- [172] – Organisation of robot behaviour through gen. learning •
- [140] **processes** An evol. appr. to training relaxation labeling •
- [48] – GAs for order dependent • appl. to robot path-planning
- [121] – Teaching relaxation labeling • using GAs
- [289] **processing** Gen. • of the sensorial info
- [9] – Perf. of GA used for analysis of call and service • in telecommunications
- [280] – Two spacecraft attitude determination using NNs and image •
- [243] **production** An evol. appr. to sch. in a large-scale • syst.
- [247, 252] – Enhancing gen. search to schedule a • unit
- [262] **production system** GA/TS: a hybrid appr. for job shop sch. in a •
- [301] **programming** An appl. of gen. • to the 4-OP problem using map-trees
- [267] – Fuzzy multi-objective solid transportation problem via evolutive •
- [60] – GAs for autonomous robot •
- [101] – Gen. -alg. • environments
- [49] – Robot • with a GA
- [235] **properties** Info theory analysis of the convergence and learning • of a certain class of GAs in continuous space and infinite pop. assumption
- [162] **proposal** GAs: The state of the art and some research •
- [105] **proteins** An artificial life model for predicting the tertiary structure of unknown • that emulates the folding process

- [261] **PVM** GAs on lan-message passing architectures using • Appl. to the routing problem
- [120, 195] **QAP** ALGODESK: an experimental comparison of eight evol. heuristics appl. to the • problem
- [193] – The Rudes and the Shrewds: an experimental comparison of several evol. heuristics appl. to the • problem
- [116] **Q-learning** and par. in evol. rule based syst.
- [83] • in evol. rule-based syst.
- [141] **QRS** Gen. design of optimum linear and nonlinear • detectors
- [160] **quadratic assignment problem** Testing par. evol. strategies on the •
- [137] **Qualitative** sel. strategies in gen. -based evol. economic models
- [19] **quality** Design of statistical • cntr. procedures using GAs
- [22] – Varying • function in GAs and the cutting problem
- [29] **quality control** Opt. of alternative • procedures using GAs [Abstract]
- [30] **quality-control** GAs-based design and opt. of statistical • procedures
- [263] **query** A GA for load balancing in par. • evaluation for deductive relational databases
- [45] **radial** GA for opt. sectionalizing in • distribution syst. with alternative supply
- [203] **random** A model for the emergence of sex in evolving networks: Adaptive advantage or • drift?
- [132] **real** Alecsys and the autonomouse: learning to cntr. a • robot by distr. classifier syst.
- [178] – ALECSYS and the AUTONOUSE: Learning to Cntr. a • Robot by Distr. CSs
- [144] **real time** A comparison of neural networks, linear cntr. GAs and simulated annealing for • cntr.
- [282] **real-coded** Dynamic and heuristic crossover operators for cntr. the diversity and convergence of • GAs
- [277] **reasoning** Fuzzy and probabilistic • in simple learning CSs
- [66] **recognition** GAs for optical pattern •
- [72] – Machine learning and GAs: an appl. to character •
- [205] **Recombination** and unsupervised learning: effects of crossover in the gen. opt. of neural networks
- [68] – Using the functional behavior of neurons for gen. • in neural nets training
- [33] **recurrent** A GA for training • neural networks
- [257] – Evol. generation and training of • artificial neural networks
- [295] – Gen. synthesis of discrete-time • neural network
- [287] **redes** Aplicación de los alg. os genéticos para el diseño de • neuronales [Appl. of GAs for the design of neural networks]
- [279] **reducing** A GA for • the number of states in incompletely specified finite state machines
- [74] **reduction** GAs for cntr. order •
- [300] **redundancy** GA based • resolution of robot manipulators
- [52] **redundant** An evol. standing on the design of • manipulators
- [191] **REGAL** an integrated syst. for learning relations using GAs
- [117] **regional** GAs in the role of intelligent • adaptation agents for agricultural support syst.
- [10] **regression** Detecting multiple outliers in • data using GAs
- [70] – Highly par. evol. alg. for global opt. , symbolic inference and non-linear •
- [220] **regret** Dynamic planning of distribution networks for minimum • strategies
- [304] **regulation** Self-tuning robust multi-loop AVRS for synchronous generators in primary • for power syst.
- [263] **relational** A GA for load balancing in par. query evaluation for deductive • databases
- [230] – Appl. of GAs in solving fuzzy • equations
- [191] **relations** REGAL: an integrated syst. for learning • using GAs
- [140] **relaxation** An evol. appr. to training • labeling processes
- [121] – Teaching • labeling processes using GAs
- [259] **remeshing** Mesh generation and adaptive • by GAs on transonic flow simulation
- [238] **repair** Task sch. and resource management in ship • using a GA
- [53] **representation** Epistasis variance: Suitability of a • to GAs
- [223] **representations** Comparison of two • for the simple and the enhanced job-shop Sch. problem
- [47] – GAs for unfixed length, order dependent •
- [202] **reproduction** “Sexual” • in neural networks
- [162] **research** GAs: The state of the art and some • proposal
- [179] – Par. GAs: Introduction and overview of current •
- [253] **resolución** Diseño y evaluación de técnicas mixtas basadas en algoritmos genéticos y de branch-and-bound para la • de problemas de optimización combinatoria
- [300] **resolution** GA based redundancy • of robot manipulators
- [264] – Hybridizing GAs with branch and bound techniques for the • of the TSP
- [238] **resource** Task sch. and • management in ship repair using a GA
- [42] **re-start** Selectively destructive •
- [103] **reversal** Robust phase • tone detection using soft computing
- [17] **Review** of prallel GAs bibliography
- [50] **reward** Lamarckian sub-goal • in GA
- [75] **RF** Ottimizzazione di cavitá • per acceleratori di particelle
- [194] **rise** The • of interaction - Intrinsic simulation modeling of the onset of interacting behaviour
- [86] **risk** An evol. alg. for portfolio sel. in a downside • framework
- [164] **robot** A bootstrapping appr. to • intelligence: First results
- [56] – A GA Appl. to • Trajectory Generation
- [274] – A wall following • with a fuzzy logic cntr. optimized by a GA
- [132] – Alecsys and the autonomouse: learning to cntr. a real • by distr. classifier syst.
- [300] – GA based redundancy resolution of • manipulators
- [60] – GAs for autonomous • prog.
- [48] – GAs for order dependent processes appl. to • path-planning
- [177] – Learning to cntr. an autonomous • by distr. GAs
- [49] • prog. with a GA
- [176] • shaping: Developing situated agents through learning
- [172] – Organisation of • behaviour through gen. learning process
- [233] – Run-time autotuning of a • cntr. using a gen. based ML cntr. scheme
- [178] – ALECSYS and the AUTONOUSE: Learning to Cntr. a Real • by Distr. CSs
- [51] **Robotics** GAs and • A heuristic strategy for opt.
- [59] – GAs in •
- [183] – Gen. -based ML and Behaviour Based • A New Synthesis
- [255] **robots** Estudio de la coordinación inteligente en • bípedos: aplicación de lógica borrosa y algoritmos genéticos
- [103] **Robust** phase reversal tone detection using soft computing
- [304] – Self-tuning • multi-loop AVRS for synchronous generators in primary regulation for power syst.
- [117] **role** GAs in the • of intelligent regional adaptation agents for agricultural support syst.
- [21] **roofs** GAs in discrete opt. of steel truss •
- [126] **rostering problem** A GA for the • (FARO tender)
- [155] – Hybris GAs for a •
- [135] **rotors** Use of GAs for the design of •
- [303] **Rounding** FIR filter coefficients using GAs
- [11] **routing** GA appr. to solving multiple vehicle • problem
- [134] • opt. by concurrent GAs
- [256] – The • problem in traffic cntr. using GAs
- [261] **routing problem** GAs on lan-message passing architectures using PVM: Appl. to the •
- [226] **RPLC** Modelling chromatographic behaviour as a function of pH and solvent composition in •
- [193] **Rudes** The • and the Shrewds: an experimental comparison of several evol. heuristics appl. to the QAP problem
- [116] **rule** Q-learning and par. in evol. • based syst.
- [83] **rule-based** Q-Learning in evol. • syst.
- [71] **rules** Evol. learning of general fuzzy • with biased evaluation functions: competition and cooperation
- [233] **Run-time** autotuning of a robot cntr. using a gen. based ML cntr. scheme
- [247, 252] **schedule** Enhancing gen. search to • a production unit
- [125] **schedules** An integrated framework for devising optimum generation •
- [243] **scheduling** An evol. appr. to • in a large-scale production syst.
- [27] – Combination of GAs and CLP in the vehicle-fleet • problem

- [223] — Comparison of two Rep. for the simple and the enhanced job-shop • problem
- [238] — Task • and resource management in ship repair using a GA
- [233] **scheme** Run-time autotuning of a robot cntr. using a gen. based ML cntr. •
- [247, 252] **search** Enhancing gen. • to schedule a production unit
- [294] — GAs: a strategy for • and opt.
- [79] — Improving • by incorporating evol. principles in par. tabu search
- [16] — Neural networks, GAs and the K-means alg. : in • of data classification
- [197] — Searching among • Spaces: hastening the gen. evol. of feedforward neural networks
- [153] — Timetabling through constrained heuristic • and GAs
- [270] — Topology-based gen. • for the Stahel-Donoho estimator
- [285] **searching** Learning Bayesian network structures by • for best ordering with GA
- [197] • among Search Spaces: hastening the gen. evol. of feedforward neural networks
- [109] • for the opt. coding in GAs
- [35] **sectionalizer** Opt. • allocation in electric distribution syst. by GA
- [45] **sectionalizing** GA for opt. • in radial distribution syst. with alternative supply
- [222] **security** Derivation of classification structures for fast evaluation of dynamic • assessment in power syst. using GAs
- [215] **segment** Neural inhabitants of MR and echo images • cardiac structures
- [82] **seismoacoustic** Inversion of • data using GAs and a posteriori probability distributions
- [92] **selection** A distr. model for • in evol. alg.
- [213] — A gen. appr. to portfolio •
- [86] — An evol. alg. for portfolio • in a downside risk framework
- [118] — Distr. GAs with an appl. to portfolio • problems
- [100] — Formal models of • in GAs
- [137] — Qualitative • strategies in gen. -based evol. economic models
- [42] **Selectively** destructive re-start
- [304] **Self-tuning** robust multi-loop AVRS for synchronous generators in primary regulation for power syst.
- [289] **sensorial** Gen. processing of the • info
- [131] **sensors** Position and number opt. of actuators and • in an active noise cntr. syst. by GAs
- [186] **sequential** Training agents to perform • behavior
- [76] — Training agents to perform • behaviour
- [9] **service** Perf. of GA used for analysis of call and • processing in telecommunications
- [80] **servo motors** A GA appr. to design flux observer for induction •
- [203] **sex** A model for the emergence of • in evolving networks: Adaptive advantage or random drift?
- [202] **Sexual** reproduction in neural networks
- [211] **shape** Aerodynamic • opt. by means of a GA
- [142] — Aerodynamic • opt. by means of hybrid GA
- [122] — Hybrid GA for multi objective aerodynamic • opt.
- [176] **shaping** Robot • Developing situated agents through learning
- [238] **ship** Task sch. and resource management in • repair using a GA
- [193] **Shrewds** The Rudes and the • an experimental comparison of several evol. heuristics appl. to the QAP problem
- [291] **Simulated** evol. of modular networks
- [144] **simulated annealing** A comparison of neural networks, linear cntr. , GAs and • for real time cntr.
- [189] **simulation** Exploiting domain knowledge, neural networks and GAs to harvest traffic • results
- [259] — Mesh generation and adaptive remeshing by GAs on transonic flow •
- [159] • of GAs on MIMD Multicomputers
- [194] — The rise of interaction - Intrinsic • modeling of the onset of interacting behaviour
- [258] **sistemas** Alg. os genéticos paralelos para problemas combinatorios sobre • multiprocesadores de memoria distribuida
- [176] **situated** Robot shaping: Developing • agents through learning
- [273] **skills** GAs: A stochastic improvement technique. Tools, • pitfalls and examples
- [258] **sobre** Alg. os genéticos paralelos para problemas combinatorios • sistemas multiprocesadores de memoria distribuida
- [128] **Soft computing** appr. to hardware software codesign
- [103] — Robust phase reversal tone detection using •
- [128] **software** Soft computing appr. to hardware • codesign
- [267] **solid** Fuzzy multi-objective • transportation problem via evolutive prog.
- [20] **solution** A GA • to the unit commitment problem
- [25, 28] — A GA • to the unit commitment problem
- [18] — GA • to the economic dispatch problem
- [157] — Monreale: A new GA for the • of channel routing problems
- [124] — Perf. of GAs in the • of permutation flowshop problems
- [90] **solutions** Evol. • to a highly constrained comb. problem
- [229] — Two • to the general timetable problem using evol. methods
- [163] **solve** On the use of GAs to • the time-table problems
- [226] **solvent** Modelling chromatographic behaviour as a function of pH and • composition in RPLC
- [99] **solvers** Opt. domain decomposition for par. multiblock flow-field • using GAs
- [230] **solving** Appl. of GAs in • fuzzy relational equations
- [11] — GA appr. to • multiple vehicle routing problem
- [299] • concentrator location-problems using GAs
- [97] **source** Global inversion by GAs for both • position and environmental parameters
- [62] **space** An investigation of a GA in continuous parameter •
- [271] — GAs for fuzzy cntr. of automatic docking with a • station
- [235] — Info theory analysis of the convergence and learning properties of a certain class of GAs in continuous • and infinite pop. assumption
- [280] **spacecraft** Two • attitude determination using NNs and ImPr
- [197] **Spaces** Searching among Search • hastening the gen. evol. of feedforward neural networks
- [57] **Species** A Nat. ly Occuring Niche & • Phenomenon: The Model and First Results
- [279] **specified** A GA for reducing the number of states in incompletely • finite state machines
- [175] **speed** Using transputers to increase • and flexibility of gen. -based machine learning syst.
- [270] **Stahel-Donoho estimator** Topology-based gen. search for the •
- [52] **standing** An evol. • on the design of redundant manipulators
- [279] **state** A GA for reducing the number of states in incompletely specified finite • machines
- [162] — GAs: The • of the art and some research proposal
- [279] **states** A GA for reducing the number of • in incompletely specified finite state machines
- [271] **station** GAs for fuzzy cntr. of automatic docking with a space •
- [19] **statistical** Design of • quality cntr. procedures using GAs
- [30] — GAs-based design and opt. of • quality-cntr. procedures
- [23] **statistical quality control procedures** Design of • using GAs
- [21] **steel** GAs in discrete opt. of • truss roofs
- [273] **stochastic** GAs: A • improvement technique. Tools, skills, pitfalls and examples
- [220] **strategies** Dynamic planning of distribution networks for minimum regret •
- [188] — Emergence of nest-based foraging • in ecosyst. of neural networks
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- [26] — Gen. evolved •
- [96] — Par. tabu search versus par. evol. •
- [137] — Qualitative sel. • in gen. -based evol. economic models
- [294] **strategy** GAs: a • for search and opt.
- [51] — GAs and Robotics: A heuristic • for opt.
- [292] **structural** Opt. of • and finite element models via GAs
- [105] **structure** An artificial life model for predicting the tertiary • of unknown proteins that emulates the folding process
- [222] **structures** Derivation of classification • for fast evaluation of dynamic security assessment in power syst. using GAs
- [285] — Learning Bayesian network • by searching for best ordering with GA
- [215] — Neural inhabitants of MR and echo images segment cardiac •
- [95] **strumento** Gli alg. i nat. i come • di ottimizzazione
- [50] **sub-goal** Lamarckian • reward in GA
- [53] **Suitability** Epistasis variance: • of a Rep. to GAs
- [244] **Superfast** autoconfiguring ANNs and their appl. to power syst.

- [45] **supply** GA for opt. sectionalizing in radial distribution syst. with alternative •
- [117] **support** GAs in the role of intelligent regional adaptation agents for agricultural • syst.
- [158] **survey** GAs and appl. in syst. eng. : a •
- [156] – GAs for process cntr. : A •
- [70] **symbolic** Highly par. evol. alg. for global opt. , • inference and non-linear regression
- [304] **synchronous** Self-tuning robust multi-loop AVRS for • generators in primary regulation for power syst.
- [248] **synthesis** Automated • of cntr. for nonlinear dynamic syst.
- [295] – Gen. • of discrete-time recurrent neural network
- [240] – Gen. • of task oriented neural networks
- [236] – Gen. • of task-oriented NNs
- [183] – Gen. -based ML and Behaviour Based Robotics: A New •
- [111] **tabu search** Comparing par. • and parallel GAs on the task allocation problem
- [79] – Improving search by incorporating evol. principles in par. •
- [96] – Par. • versus par. ES
- [266] **Tackling** fuzzy GA
- [111] **task** Comparing par. tabu search and parallel GAs on the • allocation problem
- [240] – Gen. synthesis of • oriented neural networks
- [238] • sch. and resource management in ship repair using a GA
- [236] **task-oriented** Gen. synthesis of • NNs
- [210] **teaching** Auto-teaching: networks that develop their own • input
- [121] • relaxation labeling processes using GAs
- [129] **telecommunication network** GAs for • opt.
- [9] **telecommunications** Perf. of GA used for analysis of call and service processing in •
- [126] **tender** A GA for the rostering problem (FARO •
- [105] **tertiary** An artificial life model for predicting the • structure of unknown proteins that emulates the folding process
- [91] **test pattern** GATTO: an intelligent tool for automatic • generation for digital circuits
- [160] **Testing** par. evol. strategies on the QAP
- [104] – Opt. of exciter locations and force appropriation in phase-resonance modal • using the GA
- [235] **theory** Info • analysis of the convergence and learning properties of a certain class of GAs in continuous space and infinite pop. assumption
- [39] **thin-film** GA and • design
- [165] **time-table** GAs: A new appr. to the • problem
- [171] – GAs and highly constrained problems: The • case
- [163] – On the use of GAs to solve the • problems
- [229] **timetable** Two solutions to the general • problem using evol. methods
- [153] **Timetabling** through constrained heuristic search and GAs
- [103] **tone** Robust phase reversal • detection using soft computing
- [91] **tool** GATTO: an intelligent • for automatic test pattern generation for digital circuits
- [254] **tools** Fuzzy • to improve GAs
- [273] – GAs: A stochastic improvement technique. • skills, pitfalls and examples
- [61] – The interplay among the GA operators: info-theory • used in a holistic way
- [119] **Topological** clustering of maps using a GA
- [44] • design of local area networks using GAs
- [87] **topology** Gen. evol. of the • and weight distribution of neural networks
- [270] **Topology-based** gen. search for the Stahel-Donoho estimator
- [201] **trading** Evol. of • strategies among heterogeneous artificial economic agents
- [189] **traffic** Exploiting domain knowledge, neural networks and GAs to harvest • simulation results
- [256] – The routing problem in • cntr. using GAs
- [33] **training** A GA for • recurrent neural networks
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- [40] – Efficient GAs for • layered feedforward neural networks
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- [186] • agents to perform sequential behavior
- [76] • agents to perform sequential behaviour
- [68] – Using the functional behavior of neurons for gen. recombination in neural nets •
- [245] **trains** Design and opt. of planetary gear •
- [56] **Trajectory** A GA Appl. to Robot • Generation
- [113] **transonic** A par. GA for • airfoil opt.
- [143] – GAs appl. to the aerodynamic design of • airfoils
- [259] – Mesh generation and adaptive remeshing by GAs on • flow simulation
- [147] • airfoil design by means of a GA
- [207] **transportation problem** Fuzzy multi-objective solid • via evolutive prog.
- [175] **transputers** Using • to increase speed and flexibility of gen. -based machine learning syst.
- [21] **truss** GAs in discrete opt. of steel • roofs
- [264] **TSP** Hybridizing GAs with branch and bound techniques for the resolution of the •
- [251] **tuning** GAs in cntr. design and •
- [275] • fuzzy-logic cntr. by GAs
- [88] **turbine** Opt. of wind • positioning in large windfarms by means of GA
- [221] **uncertainty** A general methodology for distribution planning under • including GAs and fuzzy models in a multi-criteria environment
- [219] – GAs and fuzzy models – an appl. to gas and electricity distribution planning under •
- [47] **unfixed** GAs for • length, order dependent Rep.
- [20] **unit** A GA solution to the • commitment problem
- [247, 252] – Enhancing gen. search to schedule a production •
- [25, 28] **unit commitment problem** A GA solution to the •
- [105] **unknown** An artificial life model for predicting the tertiary structure of • proteins that emulates the folding process
- [205] **unsupervised** Recombination and • learning: effects of crossover in the gen. opt. of neural networks
- [9] **used** Perf. of GA • for analysis of call and service processing in telecommunications
- [61] – The interplay among the GA operators: info-theory tools • in a holistic way
- [246] **variable** Neural networks without design – evol. with GAs and genotypes of • length
- [58] **variance** Epistasis • A viewpoint on GA-hardness
- [53] – Epistasis • Suitability of a Rep. to GAs
- [22] **Varying** quality function in GAs and the cutting problem
- [298] **vector** Optimised competitive feature • network
- [69] **vector quantizer** An evol. appr. to • design
- [11] **vehicle** GA appr. to solving multiple • routing problem
- [12] – Multiple • dispatch problem and GAs
- [13] **vehicle routing** The appl. of par. GA to capacited • problem
- [27] **vehicle-fleet** Combination of GAs and CLP in the • sch. problem
- [58] **viewpoint** Epistasis variance: A • on GA-hardness
- [63] **virtually** The ECOlogical framework II: Improving GA perf. at • zero cost
- [24] **VLSI** An adaptive GA for • circuit partitioning
- [274] **wall** A • following robot with a fuzzy logic cntr. optimized by a GA
- [87] **weight** Gen. evol. of the topology and • distribution of neural networks
- [290] – Using GAs to design constant • codes
- [88] **wind** Opt. of • turbine positioning in large windfarms by means of GA
- [88] **windfarms** Opt. of wind turbine positioning in large • by means of GA

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

Appendix B

Bibliography entry formats

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.