

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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Chapter 1

Preface

“Living organisms 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 (March 27, 2015) contained 23682 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 and databases have been used systematically

- A: *International Aerospace Abstracts*: Jan. 1995 – Sep. 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 – Dec. 1999 (except May -95)
- ChA: *Chemical Abstracts*: Jan. 1997 - Dec. 2000
- 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)
- Esp@cenet *patents* – Apr. 2002
- IEEE: *IEEE and IEE Journals* – Fall 2002
- N: *Scientific and Technical Aerospace Reports*: Jan. 1993 - Dec. 1995 (except Oct. 1995)
- NASA *NASA ADS www bibliography database*: – Dec. 2002
- P: *Index to Scientific & Technical Proceedings*: Jan. 1986 – Dec 1999 (except Nov. 1994)
- PA: *Physics Abstracts*: Jan. 1997 – June 1999
- PubMed: *National Library of Medicine* Jan. 2000 – Oct. 2000, 2011-2013
- SPIE Web *The International Society for Optical Engineering* – June 2002

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.

1.1.1 How to cite this report?

You can use the BiBTeX file `GASUB.bib`, which is available in our site `lipas.uwasa.fi` in directory `reports/report94-1` and contains records for GA subbibliographies for citing with L^AT_EX/BibT_EX.

1.2 How to get this report via Internet?

Versions of this bibliography are available via `www` from the following site:

| | | | | |
|------------------|----------------|-----------------------------|-------------------------------------|-----------------------------|
| <i>media</i> | <i>country</i> | <i>site</i> | <i>directory</i> | <i>file</i> |
| <code>web</code> | Finland | <code>lipas.uwasa.fi</code> | <code>TAU/reports/report94-1</code> | <code>gaLATINbib.pdf</code> |

The directory also contains some other indexed GA bibliographies shown in table A.1. In case you do not find a proper one please let us know: it may be easy to tailor a new one.

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, Peter Bober Joachim Born, Ralf Bruns, I. L. Bukatova, Thomas Bäck, Chhandra Chakraborti, Nirupam Chakraborti, 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, Heikki Hyötyniemi Mark J. Jakiela, Richard S. Judson, Bryant A. Julstrom, Charles L. Karr, Akihiko Konagaya, Aaron Konstam, John R. Koza, Kristinn Kristinsson, Malay K. Kundu, D. P. Kwok, Jouni Lampinen, Jorma Laurikkala, Gregory Levitin, Carlos B. Lucasius, Timo Mantere, Michael de la Maza, John R. McDonnell, J. J. Merelo, Laurence D. Merkle, Zbigniew Michalewics, Melanie Mitchell, David J. Nettleton, Volker Nissen, Ari Nissinen, Tatsuya Niwa, Tomasz Ostrowski, Kihong Park, Jakub Podgórski, Timo Poranen, Nicholas J. Radcliffe, Colin R. Reeves, Gordon Roberts, David Rogers, David Romero, Sam Sandqvist, Ivan Santibáñez-Koref, Marc Schoenauer, Markus Schwehm, Hans-Paul Schwefel, Michael T. Semertzidis, Davil L. Shealy, Moshe Sipper, William M. Spears, Donald S. Szarkowicz, El-Ghazali Talbi, Masahiro Tanaka, Leigh Tesfatsion, Peter M. Todd, Marco Tomassini, Andrew L. Tuson, Kanji

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Chapter 2

Introduction

“Many scientist, possibly most scientist, just do science without thinking too much about it. They run experiments, make observations, show how certain data conflict with more general views, set out theories, and so on. Periodically, however, some of us—scientists included—step back and look at what is going on in science.”

David L., Hull, [7]

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 BiB_TE_X-database [8] have been implemented by the author mainly as sets of simple `awk` and `gawk` programs [9, 10].

| <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 |
| *CUB | ANNOTE | Cuba |
| *EQU | ANNOTE | Ecuador |
| *HAITI | ANNOTE | Haiti |
| *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 source database.

Hint

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** 32 references ([11]-[42])
- **Brazil** 242 references ([43]-[284])
- **Chile** 13 references ([285]-[297])
- **Columbia** 18 references ([298]-[315])
- **Cuba** 6 references ([316]-[321])
- **Ecuador** 1 references ([322]-[322])
- **Mexico** 142 references ([323]-[464])
- **Portugal** 106 references ([465]-[570])
- **Spain** 467 references ([571]-[1037])
- **Venezuela** 28 references ([1038]-[1065])

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; the textual order in the query 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> |
|----------------------|------------------------|
| book | 5 |
| part of a collection | 22 |
| journal article | 456 |
| proceedings article | 541 |
| report | 23 |
| PhD thesis | 31 |
| MSc thesis | 17 |
| <i>others</i> | 2 |
| <i>total</i> | 1097 |

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 late 70's - early 90's.

| <i>year</i> | <i>items</i> | <i>year</i> | <i>items</i> |
|--------------|--------------|-------------|--------------|
| 1991 | 1 | 1992 | 4 |
| 1993 | 16 | 1994 | 42 |
| 1995 | 65 | 1996 | 77 |
| 1997 | 80 | 1998 | 87 |
| 1999 | 107 | 2000 | 79 |
| 2001 | 71 | 2002 | 74 |
| 2003 | 28 | 2004 | 22 |
| 2005 | 24 | 2006 | 33 |
| 2007 | 34 | 2008 | 29 |
| 2009 | 24 | 2010 | 27 |
| 2011 | 38 | 2012 | 35 |
| 2013 | 79 | 2014 | 20 |
| 2015 | 1 | | |
| <i>total</i> | | | 1097 |

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.

| | |
|--------------|------|
| <i>Total</i> | 1099 |
| others | 0 |

Table 3.3: The most popular subjects.

3.4 Authors

Table 3.4 gives the most productive authors.

| | |
|--------------------------|------|
| total number of authors | 2225 |
| Herrera, Francisco | 43 |
| Coello Coello, Carlos A. | 34 |
| Lozano, Manuel | 25 |
| Cordón, Oscar | 22 |
| Verdegay, Jose Luis | 18 |
| Alba, Enrique | 16 |
| Damas, Sergio | 15 |
| Santamaría, José | 13 |
| Cotta, Carlos | 12 |
| Magdalena, Luis | 12 |
| Merelo, J. J. | 12 |
| Miranda, Vladimiro | 10 |
| 1 author | 9 |
| 3 authors | 8 |
| 14 authors | 7 |
| 10 authors | 6 |
| 18 authors | 5 |
| 44 authors | 4 |
| 92 authors | 3 |
| 349 authors | 2 |
| 1682 authors | 1 |

Table 3.4: The most productive genetic algorithms in the Latin America, Portugal and Spain authors.

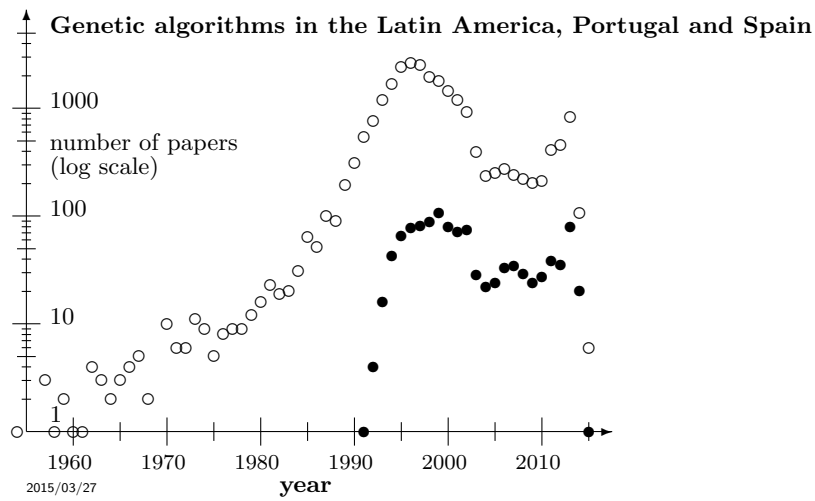


Figure 3.1: The number of papers applying **genetic algorithms in the Latin America, Portugal and Spain** (\bullet , $N = 1099$) and total GA papers (\circ , $N = 23682$). Observe that the last few years are most incomplete in the database.

3.5 Topic distribution

Table 3.5 gives the distribution of topics as compared to the total database.

| <small>2015/03/27</small> | <i>special</i> | | <i>comparison</i> | | <i>all</i> | |
|---------------------------|----------------|--------|-------------------|--------------|------------|--------|
| <i>topic</i> | <i>n</i> | % | $\delta[\%]$ | $\Delta[\%]$ | <i>N</i> | % |
| <i>Total</i> | 1099 | 100.00 | | | 23682 | 100.00 |

Table 3.5: The distribution of topics (n) compared (δ and Δ) to the topic distribution of the total database (N). In the *comparison* column: $\delta\% = \%special - \%all$ and $\Delta = (1 - \frac{nN_{Total}}{Nn_{Total}}) \times 100\%$. Δ is the relative (%) deviation from the expected number of special papers. Observe that a paper may contain several topics.

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.

Evolutionary Electronics: Automatic Design of Electronic Circuits and Systems by Genetic Algorithms, [71]
Genetic Fuzzy Systems, Evolutionary Tuning and Learning of Fuzzy Knowledge Bases, [624]
Localização Dinâmica, Modelos e Técnicas, [512]
Robust Control Systems with Genetic Algorithms, [80]
Robust Range Image Registration Using Genetic Algorithms And The Surface Interpenetration Measure, [111]
total 5 books

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.

ACM Computing Surveys, [325]
ACM SIGAPL APL Quote Quad, [339]
ACM SIGAPP Applied Computing Review, [481]
Actas de los Talleres de las Jornadas de Ingeniera del Software y Bases de Datos, [734, 743, 747, 760]
American Journal of Physics, [430]
Analytica Chimica Acta, [68, 712, 123, 151, 910, 943]
Analytical and Bioanalytical Chemistry, [724]
Applied Mathematics Letters, [443]
Applied Physics Letters, [677, 705]
Applied Physics Letters, Interdisciplinary and General Physics, [690, 693]
Applied Radiation and Isotopes, [160]

Applied Soft Computing, [680, 361, 375, 796, 803, 803, 175, 175]
Artificial Intelligence in Engineering, [1000]
Artificial Intelligence in Medicine, [298, 525, 911, 952, 314]
Artificial Intelligence Review, [670, 961, 1010]
Astronomy and Astrophysics, [638]
Av. Ing. Quim., [416]
Bad. Oper. Decyzje (Poland), [865]
Bio Systems, [368, 827]
Bioinformatics, [702, 806, 806]
Biological Conservation, [508, 363]
Biological Invasions, [308]
BioMedical Engineering OnLine, [146]
Biomedical Optics Express, [384, 384]
Biophysical Journal, [958]
Bioprocess and Biosystems Engineering, [169, 169]
Bioresource Technology, [25]
BioSystems, [627]
Biosystems Engineering, [720]
Biotechnology and Bioengineering, [503]
BMC Bioinformatics, [778]
BMC Medical Genomics, [524, 524]
Boln. Asoc. esp. Ent., [695]
Brazilian Journal of Biology, [142, 143]
Brazilian Journal of Biology = Revista Brasileira De Biologia, [159]
Chemical Physics Letters, [437]
Chemometrics and Intelligent Laboratory Systems, [817, 954]
Chromatographia, [570]
Civil Engineering Systems, [421, 446]
Complexity (USA), [1020]
Comput. Biomed. Res. (USA), [251]
Comput. Ind. (Netherlands), [950]
Computer Methods and Programs in Biomedicine, [685, 518, 805, 805, 526]
Computer Methods in Applied Mechanics and Engineering, [340]
Computer Physics Communications, [600, 441, 994, 447, 283]

- Computer Vision and Image Understanding, [775]
Computers and Chemical Engineering, [106, 289]
Computers and Electronics in Agriculture, [115]
Computers and Operations Research, [288]
Computers in Cardiology, [1058]
Computers in Industry, [19, 462]
Computers & Operations Research, [713, 731]
Control Engineering Practice, [562]
Controle Autom. (Brazil), [258, 278]
Cryptologia, [799, 799]
Current Medical Imaging Reviews, [816, 816]
Cybernetics and Systems, [16]
Datalogiske Skr. (Denmark), [973]
Diversity and Distributions, [766]
Divulgaciones Matemáticas, [1049]
Ecological Informatics, [145]
Ecological Modelling, [113, 362, 152]
Egypt. Comput. J. (Egypt), [32]
Electric Power System Research, [104]
Electronics Letters, [584, 586, 595, 625, 626, 887, 898, 41]
Energy Fuels, [715]
Engineering analysis with boundary Elements, [1041]
Engineering Applications of Artificial Intelligence, [974]
Engineering Optimization, [455, 460]
Engineering with Computers, [418]
Environmental Progress & Sustainable Energy, [762]
Environmental Research, [813, 813]
Eur. J. Oper. Res. (Netherlands), [1002, 1021]
European Journal of Operational Research, [69, 675, 684, 957]
Evolutionary Computation, [167, 167, 985, 998, 452]
EvoNews, [895]
Expert Systems, [21]
Expert Systems with Applications, [785, 792, 794, 811, 811, 387, 387, 424, 426]
Fiber & Integrated Optics, [676]
Finite Elements in Analysis and Design, [1056, 1062]
Flexible Services and Manufacturing Journal, [163]
Food Chemistry, [173, 173]
Found. Comput. Decis. Sci. (Poland), [451]
Fuel, [161]
Fusion Engineering and Design, [26]
Fuzzy Systems & Artificial Intelligence Reports and Letters, [842]
Genetic Programming and Evolvable Machines, [360, 711, 773]
Geophysical Research Letters, [571]
Global Ecology and Biogeography, [353]
Hyperfine Interact. (Netherlands), [250]
IBM Journal of Research & Development, [665]
IEE Proceedings - Generation, Transmission and Distribution, [64, 239, 254]
IEE Proceedings-Circuits Devices and Systems, [1004]
IEEE Antennas and Propagation Magazine, [1038]
IEEE Computational Intelligence Magazine, [783]
IEEE Control Systems Magazine, [233]
IEEE Journal on Selected Areas in Communications, [681]
IEEE Signal Processing Letters, [12]
IEEE Trans. Parallel Distrib. Syst. (USA), [277]
IEEE Transactions on Antennas and Propagation, [634, 997]
IEEE Transactions on Components, Packaging, and Manufacturing Technology, [1059]
IEEE Transactions on Electromagnetic Compatibility, [609]
IEEE Transactions on Energy Conversion, [336]
IEEE Transactions on Evolutionary Computation, [575, 581, 590, 603, 607, 484, 70, 657, 1006]
IEEE Transactions on Fuzzy Systems, [585, 592, 300, 632, 660, 725, 782, 933, 987]
IEEE Transactions on Industrial Electronics, [57]
IEEE Transactions on Industry Applications, [230]
IEEE Transactions on Knowledge and Data Engineering, [651]
IEEE Transactions on Magnetics, [63, 72, 227]
IEEE Transactions on Microwave Theory and Techniques, [699]
IEEE Transactions on Pattern Analysis and Machine Intelligence, [109, 901]
IEEE Transactions on Power Delivery, [821]
IEEE Transactions on Power Electronics, [388]
IEEE Transactions on Power Systems, [45, 299, 621, 301, 82, 528, 883, 295, 980]
IEEE Transactions on Systems, Man, and Cybernetics, [892, 1014]
IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and Reviews, [650]
IET Biometrics, [790]
Image and Vision Computing, [706, 121]
Inf. Syst. Eng. (Netherlands), [889]
Inf. Technol., [936]
Inform. Autom. (Spain), [882, 896, 916]
Information and Software Technology, [615, 751, 757, 774]
Information Sciences, [602, 616, 619, 727, 814, 814]
Informática y Automática (Spain), [872, 1025, 1035]
Ingenium, [312, 312]
Int. J. Approx. Reason. (USA), [937, 948]
Int. J. Electr. Power Energy Syst. (UK), [552]
Int. J. Electrical Power & Energy Systems (UK), [555]
Int. J. Power Energy Syst. (USA), [868]
Int. Numer. Meth. Eng., [1048]
Integrated Computer-Aided Engineering, [75]
Interdisciplinary Sciences, Computational Life Sciences, [24]
International Journal for Numerical Methods in Engineering, [99, 352, 273]

- International Journal of Approximative Reasoning, [722, 403, 946]
- International Journal of Computer Applications, [383, 383]
- International Journal of Electrical Power and Energy Systems, [519]
- International Journal of Innovative Computing, Information and Control, [791]
- International Journal of Intelligent Systems, [904]
- International Journal of Modern Physics C, [599, 332]
- International Journal of Neural Systems, [787]
- International Journal of Pattern Recognition and Artificial Intelligence, [93]
- International Journal of Plasticity, [507]
- International Journal of Production Research, [376, 247]
- International Journal of Systems Science, [732]
- International Journal on Artificial Intelligence Tools, [825]
- International Transactions in Operational Research, [492]
- J. Acoust. Soc. Am., [758]
- J. Am. Soc. Inf. Sci. (USA), [1012]
- J. Chem. Inf. Comput. Sci., [577]
- J. Comput. Acoust. (Singapore), [558]
- J. Water resour. Plann. Manage., [229]
- Journal of Agricultural and Food Chemistry, [726]
- Journal of Applied Operational Research, [178]
- Journal of Arid Environments, [364]
- Journal of Biogeography, [703]
- Journal of Biomechanics, [520]
- Journal of Chemical Information and Computer Sciences, [14]
- Journal of Chemometrics, [20]
- Journal of Chromatography. A, [767]
- Journal of Computational Chemistry, [683]
- Journal of Computational Physics, [84]
- Journal of Computer-Aided Molecular Design, [801, 801]
- Journal of Energy, [523, 523]
- Journal of Field Robotics, [696]
- Journal of Fluids and Structures, [62]
- Journal of Guidance, Control, and Dynamics, [35]
- Journal of Heuristics, [708]
- Journal of Integrative Bioinformatics, [517]
- Journal of Lightwave Technology, [689]
- Journal of Magnetism and Magnetic Materials, [65]
- Journal of Mammalogy, [354]
- Journal of Materials Processing Technology, [483]
- Journal of Microbiological Methods, [177]
- Journal of Molecular Biology, [593]
- Journal of Molecular Modeling, [148, 810, 810]
- Journal of Molecular Structure (Theochem), [321]
- Journal of Near Infrared Spectroscopy, [232]
- Journal of Parallel and Distributed Computing, [644, 23]
- Journal of Pharmaceutical and Biomedical Analysis, [155, 157]
- Journal of Solar Energy Engineering, [499]
- Journal of Systems and Software, [176, 176]
- Journal of the Brazilian Society of Mechanical Science and Engineering, [103, 118]
- Journal of the Operational Research Society, [573, 669]
- Journal of the Science of Food and Agriculture, [174, 174]
- Journal of Theoretical Biology, [989, 1061]
- Journal of Transportation Engineering-ASCE, [771]
- Journal of Vector Ecology, [119]
- Knowledge and Information Systems. An International Journal, [458]
- Knowledge-Based Systems, [776]
- Materials Research, [79]
- Materials Science & Engineering. C, Materials for Biological Applications, [171, 171]
- Mathematical and Computer Modelling, [756, 765]
- Mathware & Soft Computing, [874]
- Med. Biol. Eng. Comput., [444]
- Medical Engineering & Physics, [786]
- Megadiversidade, [138]
- Mem. Inst. Oswaldo Cruz, [122]
- Memórias do Instituto Oswaldo Cruz, [139]
- Microelectron. J. (UK), [869, 921, 931]
- Midwest Symp Circuits Syst, [193]
- Molecular Ecology, [374]
- Molecules, [164]
- Multimedia Tools and Applications, [809, 809]
- Nanoscale Research Letters, [807, 807]
- Nanotechnology, [617]
- Nature, [339, 13, 346, 505]
- Neural Netw. World (Czech Republic), [983]
- Neural Networks, [601, 165]
- Neural Processing Letters, [815, 815]
- Neurocomputing, [92]
- NeuroImage, [824]
- Nuclear Instruments and Methods in Physics Research Section B, [235]
- Optical Engineering, [107]
- Optics Communications, [342]
- Optics Express, [691, 515]
- Optics Letters, [686, 382]
- Particle & Particle Systems Characterization, [28]
- Pattern Anal. Appl. (UK), [1055]
- Pattern Recognition, [343]
- Pattern Recognition Letters, [574, 655, 692, 1003]
- Photochemistry and Photobiology, [27]
- Photogrammetric Engineering & Remote Sensing, [348]
- Physica A, [67]
- Physical Chemistry Chemical Physics, [779, 795]
- Physical Review A, [79]
- Physical Review E, [318, 428, 248, 999]

Physical Review Letters, [578]
 Plasma Physics and Controlled Fusion, [830]
 PLOS Neglected Tropical Diseases, [149]
 PloS One, [168, 168]
 Proceedings of the National Academy of Sciences of the United States of America, [329]
 Proceedings of the Royal Society of London B, [679]
 Progress in Physical Geography, [704]
 Quim. Anal. (Barcelona), [1016]
 Quim. Nova, [78, 87]
 Química Nova, [81, 261]
 Real-Time Imaging, [83]
 Rev. Mex. Fis., [420]
 Rev. Mod. Phys., [635]
 Revista chilena de historia natural, [291]
 Revista Conntrole & Automação, [116]
 Revista da Sociedade Brasileira de Medicina Tropical, [100]
 Revista De Biologia Tropical, [386, 386]
 Revista del Centro de Investigación, Universidad La Salle, [323]
 Revista do Detua, [491]
 Scientia et Technica Año, [310]
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 Tatra Mt. Math. Publ. (Slovakia), [925]
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 Water Resources Management, [378]
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total 458 articles in 272 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

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 Universidad Autonoma Madrid, [717]
 Universidad Autónoma de Baja California, [370]
 Universidad Carlos III de Madrid, [755]
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 Universidad Nacional de Educación a Distancia (UNED), [826]
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 University of Granada, [939]
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4.3.2 Master's theses

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4.4 Report series

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Central University of Venezuela, [1047]
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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.

Method for imaging multiphase flow using electrical capacitance tomography, [365]

4.6 Authors

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

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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, PA = Physics Abstracts, PubMed = National Library of Medicine, 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

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.

Vaasa Genetic Algorithm Bibliography

Search & Optimise

Main features:

- Over 20,000 references to published papers
- by over 20,000 researchers.
- Available as over 70 special bibliographies online:
http://lipas.uwasa.fi/~TAU/reports/report94-1/ga*bib.pdf files.
- Covers all sciences and engineering fields, from basic theory to applications.
- Several indexes and statistical summaries.
- See what problems evolution can solve for you!

Global optimisation and search heuristics called genetic algorithm mimics evolution in nature using recombination and selection from a set of solution trials called population. One of the most prominent attractive features of genetic algorithms from the practical point of view of software techniques is their simplicity, which makes them easy to implement and tailor to solve practical search and optimisation problems.

In spite of the seemingly simple processing, the genetic algorithms are good at solving some problems that are known to be hard. The simplicity, generality, flexibility, parallelism, and the good problem solving capability have made genetic algorithm very popular among various disciplines desperately searching methods to solve difficult optimisation problems.

Observe that our server has also a selection of our papers on genetic algorithms and other computational topics. See our bibliographies or file [ftp.uwasa.fi/cs/README](ftp://lipas.uwasa.fi/cs/README) for further details.

| <i>file</i> | <i># refs</i> | <i>updated</i> | <i>contents</i> |
|---------------------|---------------|----------------|--|
| ga90bib.ps.Z | | | GA in 1990 |
| ⋮ | ⋮ | ⋮ | ⋮ |
| ga02bib.ps.Z | 557 | | GA in 2002 |
| gaACOUSTICSbib.pdf | 190 | 2009/08/17 | GA in acoustics |
| gaAIbib.pdf | 2566 | 2013/06/14 | GA in artificial intelligence |
| gaAERObib.pdf | 911 | 2014/05/06 | GA in aerospace |
| gaAGRObib.pdf | 405 | 2012/08/01 | GA in agriculture |
| gaALIFEbib.pdf | 184 | 2014/05/06 | GA in artificial life |
| gaARTbib.pdf | 174 | 2014/05/06 | GA in art and music |
| gaAUSbib.pdf | 720 | 2013/05/14 | GA in Australia and New Zealand |
| gaBASICSbib.pdf | 1177 | 2014/04/28 | Basics of GA |
| gaBIObib.pdf | 1635 | 2014/05/06 | GA in biosciences including medicine |
| gaCADbib.pdf | 1407 | 2012/07/30 | GA in Computer Aided Design |
| gaCHEMbib.pdf | 938 | 2009/07/24 | GA in chemical sciences ; previously in gaCHEMPHYSbib.ps.Z |
| gaCHEMPHYSbib.ps.Z | 2277 | | GA in chemistry and physics; divided into gaCHEMbib.ps.Z and gaPHYSbib.ps.Z 2002 |
| gaCIVILbib.pdf | 1121 | 2014/05/06 | GA in civil, structural, and mechanical engineering |
| gaCODEbib.pdf | 392 | 2014/05/06 | GA coding |
| gaCOEVObib.pdf | 232 | 2008/09/18 | co- and differential evolution GA |
| gaCONTROLbib.pdf | 1943 | 2015/01/12 | GA in control and process engineering |
| gaCSbib.pdf | 1453 | 2008/03/20 | GA in comp. sci. (incl. databases, /mining, software testing and GP) |
| gaEARLYbib.pdf | 723 | 2014/04/28 | GA in early years (upto 1989) |
| gaEAST-EURObib.ps.Z | 679 | 2003/07/09 | GA in the Eastern Europe |
| gaECObib.pdf | 1569 | 2012/07/16 | GA in economics and finance |
| gaECOLbib.pdf | 177 | 2012/07/16 | GA in ecology and biodiversity |
| gaELMAbib.pdf | 574 | 2012/07/20 | GA in electromagnetics |
| gaESbib.pdf | 464 | 2008/08/13 | Evolution strategies |
| gaFAR-EASTbib.ps.Z | 1556 | 2011/12/29 | GA in the Far East (excl. Japan) |
| gaFEMbib.pdf | 90 | 2014/05/06 | GA & FEM |
| gaFINbib.pdf | 891 | 2013/05/22 | GA in Finland |
| gaFPGAbib.pdf | 456 | 2015/03/20 | GA & FPGA |
| gaFRAbib.ps.Z | 540 | 2011/12/29 | GA in France |
| gaFTPbib.ps.Z | 1353 | 2003/07/09 | GA papers available via web (ftp and www) |
| gaFUZZYbib.pdf | 1562 | 2015/03/20 | GA and fuzzy logic |
| gaGAMEbib.pdf | 140 | 2014/05/06 | GA and games |
| gaGEObib.pdf | 458 | 2014/05/06 | GA in geosciences |
| gaGERbib.ps.Z | 1586 | 2004/09/22 | GA in Germany, Austria, and Switzerland |
| gaGPbib.pdf | 1006 | 2012/07/30 | genetic programming |
| gaIMPLEbib.pdf | 1500 | 2012/07/30 | implementations of GA |
| gaINDIAbib.ps.Z | 276 | 2003/05/23 | GA in India |
| gaINVERSEbib.pdf | 291 | 2010/01/08 | GA in inverse problems |
| gaIREGbib.pdf | 218 | 2014/07/04 | image registration |
| gaISbib.pdf | 87 | 2009/08/17 | immune systems |
| gaJAPANbib.ps.Z | 2475 | 2013/05/14 | GA in Japan |
| gaLCSbib.pdf | 211 | 2012/08/08 | Learning Classifier Systems |
| gaLASERbib.pdf | 58 | 2009/07/31 | GA and lasers |
| gaLATINbib.ps.Z | 1099 | 2015/03/27 | GA in Latin America, Portugal & Spain |
| gaLOGISTICSbib.pdf | 741 | 2014/05/06 | GA in logistics (incl. TSP) |
| gaMANUbib.pdf | | | GA in manufacturing |
| gaMATHbib.pdf | 846 | 2009/07/27 | GA in mathematics |
| gaMEDICINEbib.pdf | 1162 | 2014/07/18 | GA in medicine |
| gaMEDITERbib.ps.Z | 1810 | 2003/07/09 | GA in the Mediterranean |
| gaMICRObib.pdf | 83 | 2008/03/31 | GA in microscopy & microsystems |
| gaMILbib.pdf | 113 | 2009/08/17 | GA in military applications |
| gaMLbib.pdf | 1231 | 2012/08/08 | GA in machine learning |
| gaMSEbib.pdf | 575 | 2013/08/15 | GA in materials |
| gaNANObib.pdf | 117 | 2012/07/17 | GA in nanotechnology |
| gaNIRbib.pdf | 267 | 2013/11/18 | GA in NIRS (spectroscopy) |
| gaNNbib.pdf | 1979 | 2015/03/20 | GA in neural networks |
| gaNORDICbib.pdf | 1148 | 2015/02/15 | GA in Nordic countries |
| gaOPTICSbib.pdf | 2168 | 2014/04/28 | GA in optics and image processing |
| gaOPTIMbib.pdf | 923 | 2003/07/09 | GA and optimization (only a few refs) |
| gaORbib.pdf | 1750 | 2014/12/10 | GA in operations research |

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| <i>file</i> | <i># refs</i> | <i>updated</i> | <i>contents</i> |
|---------------------|---------------|----------------|--|
| gaPARAbib.pdf | 833 | 2012/07/30 | Parallel and distributed GA |
| gaPARETObib.pdf | 469 | 2009/03/24 | Pareto optimization |
| gaPATENTbib.pdf | 462 | 2009/07/27 | GA patents |
| gaPATTERNbib.pdf | 1654 | 2012/09/21 | GA in pattern recognition incl. LCS |
| gaPHYSbib.pdf | 2313 | 2008/04/07 | GA in physical sciences ; previously in gaCHEMPHYSbib.ps.Z |
| gaPIEZObib.pdf | 57 | 2012/07/18 | GA & piezo |
| gaPOWERbib.pdf | 1017 | 2015/02/15 | GA in power engineering |
| gaPROTEINbib.pdf | 491 | 2008/03/12 | GA in protein research |
| gaPSObib.pdf | 92 | 2013/08/15 | Particle Swarm Optimisation |
| gaQCbib.pdf | 547 | 2011/03/09 | quantum computing |
| gaREMOTEbib.pdf | 302 | 2012/07/20 | GA in remote sensing |
| gaROBOTbib.pdf | 775 | 2009/07/27 | GA in robotics |
| gaSAbib.pdf | 331 | 2009/07/24 | GA and simulated annealing |
| gaSCHEDULINGbib.pdf | 868 | 2014/05/14 | GA in scheduling |
| gaSELECTIONbib.ps.Z | 295 | 2009/07/27 | Selection in GAs |
| gaSIGNALbib.pdf | 2587 | 2012/07/27 | GA in signal and image processing |
| gaSIMULAbib.pdf | 1037 | 2009/07/24 | GA in simulation |
| gaTELEbib.pdf | 840 | 2009/07/27 | GA in telecom |
| gaTHEORYbib.pdf | 2654 | 2012/09/17 | Theory and analysis of GA |
| gaTHESEsbib.pdf | 578 | 2009/01/07 | PhD etc theses |
| gaVAASAbib.pdf | 284 | 2010/08/17 | GA in Vaasa |
| gaVLSIbib.pdf | 799 | 2012/07/16 | GA in electronics, VLSI design and testing |
| gaUKbib.ps.Z | 1998 | 2008/05/22 | GA in United Kingdom |
| gaXbib.ps.Z | 129 | 2013/08/15 | GA & X-rays |

Table A.1: Indexed genetic algorithm special bibliographies available online in directory <http://lipas.uwasa.fi/~TAU/reports/report94-1>. New updates only as .pdf files.