An Indexed Bibliography of Genetic Algorithms in Japan

compiled by

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Report Series No. 94-1-JAPAN  (Updated 2013/05/14 16:25 )

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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 (May 14, 2013) contained 22012 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:

- Esp@cenet patents – Apr. 2002
- IEEE: IEEE and IEE Journals – Fall 2002
- 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 Japan 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 BiBTeX/BiTEx.

1.2 How to get this report via Internet?

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

```
media country site directory file
web Finland lipas.uwasa.fi ~TAU/reports/report94-1 gaJAPANbib.pdf
```

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

Roger L. Wainwright, D. Eric Walters, James F. Whidborne, Stefan Wiegand, Steward W. Wilson, Xin Yao, Xiaodong Yin, and Ljudmila A. Zinchenko.

The editor also wants to acknowledge Elizabeth Heap-Talvela for her kind proofreading of the manuscript of this bibliography and Tea Ollanketo and Sakari Kauvosaari for updating the database. Prof. Timo Salmi and the Computer Centre of University of Vaasa is acknowledged for providing and managing the online web site lipas.uwasa.fi, where these indexed bibliographies are located since Summer 2012.
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 BiBTeX database [8] have been implemented by the author mainly as sets of simple *awk* and *gawk* programs [9, 10].

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<tr>
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<th>field</th>
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<tr>
<td>Japanese</td>
<td>NOTE</td>
<td>GAs in Japanese</td>
</tr>
</tbody>
</table>

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 Japan 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 Japan** 2469 references ([11]-[2479])
- **GAs in Japanese** 3 references ([2480]-[2482])

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.

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</table>

Table 3.1: Distribution of publication type.

### 3.2 Annual distribution

Table 3.2 gives the number of genetic algorithms in Japan 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.

<table>
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Table 3.2: Annual distribution of contributions.
3.3 Classification

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<td>agriculture</td>
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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.
Table 3.4 gives the most productive authors.

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</table>

**Total number of authors**: 3221
Figure 3.1: The number of papers applying genetic algorithms in Japan (●, \( N = 2475 \)) and total GA papers (○, \( N = 22012 \)). 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.

<table>
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<th>δ [%]</th>
<th>∆ [%]</th>
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<td>−10</td>
<td>701</td>
<td>3.18</td>
</tr>
<tr>
<td>machine learning</td>
<td>69</td>
<td>2.79</td>
<td>+0.33</td>
<td>+13</td>
<td>542</td>
<td>2.46</td>
</tr>
<tr>
<td>pattern recognition</td>
<td>60</td>
<td>2.42</td>
<td>+1.01</td>
<td>+72</td>
<td>311</td>
<td>1.41</td>
</tr>
<tr>
<td>genetic programming</td>
<td>56</td>
<td>2.26</td>
<td>−1.84</td>
<td>−45</td>
<td>903</td>
<td>4.10</td>
</tr>
<tr>
<td>manufacturing</td>
<td>54</td>
<td>2.18</td>
<td>+0.67</td>
<td>+44</td>
<td>332</td>
<td>1.51</td>
</tr>
<tr>
<td>analysing GA</td>
<td>54</td>
<td>2.18</td>
<td>−1.53</td>
<td>−41</td>
<td>816</td>
<td>3.71</td>
</tr>
<tr>
<td>parallel GA</td>
<td>52</td>
<td>2.10</td>
<td>−0.90</td>
<td>−30</td>
<td>661</td>
<td>3.00</td>
</tr>
<tr>
<td>hybrid</td>
<td>51</td>
<td>2.06</td>
<td>−0.51</td>
<td>−20</td>
<td>566</td>
<td>2.57</td>
</tr>
<tr>
<td>image processing</td>
<td>44</td>
<td>1.78</td>
<td>+0.65</td>
<td>+58</td>
<td>249</td>
<td>1.13</td>
</tr>
<tr>
<td>signal processing</td>
<td>42</td>
<td>1.70</td>
<td>−0.24</td>
<td>−12</td>
<td>428</td>
<td>1.94</td>
</tr>
<tr>
<td>VLSI</td>
<td>30</td>
<td>1.21</td>
<td>−0.13</td>
<td>−10</td>
<td>295</td>
<td>1.34</td>
</tr>
</tbody>
</table>

Table 3.5: The distribution of topics \( n \) compared \( \delta \) and \( \Delta \) to the topic distribution of the total database \( N \). In the comparison column: \( \delta = \% \text{special} - \% \text{all} \) and \( \Delta = (1 - \frac{nN_{\text{Total}}}{Nn_{\text{Total}}}) \times 100\% \). \( \Delta \) 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 Japan contributions up to 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.
Genetic algorithms in Japan
Chapter 4

Indexes

4.1 Books

The following list contains all items classified as books.

Evolvable Hardware, [599]
Genetic algorithm, [116]
Genetic Algorithm, [152]
Genetic Algorithms, [1047]
Genetic Algorithms & Engineering Design, [1879]
Handbook of Genetic Algorithms, [2480]
Near-Infrared Spectroscopy, [506]
Quantum Computing in Solid State Systems, [688]

total 9 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 SIGSOFT Software Engineering Notes, [619]
Adv. Eng. Softw. (UK), [1448]
Adv. Robot. (Netherlands), [2342, 2350]
Advanced Composites Letters, [1306]
AI Communications, [736]
AIAA Journal, [1669, 1670, 1015, 1123, 1124, 2247]
AIAA Journal on Disc, [1670, 1088, 1266, 1118, 1350]
Animal Science and Technology, [1246]
Annals of CIPR, [1673, 2010, 2452]
Annual Nuclear Energy, [2425]
Applied Mathematics and Computation, [2003]
Applied Optics, [192, 1591, 1548]
Applied Physics A, Materials Science & Processing, [327]
Archive of Applied Mechanics, [1554]
Artif. Life Robot. (Japan), [1540, 1814, 2000, 2150, 2309]
Artificial Intelligence Review, [507]
Artificial Life, [657]
ASAIO Journal, [557, 577, 596]
Asia Pacific Management Review, [919]
Automatic control in Aerospace 1998, [2172]
Automatica, [1910]
Auton. Robots (Netherlands), [1991]
Bioinformatics, [555]
Biomedical Soft Computing and Human Sciences, [233]
BioSystems, [1209, 2182]
BMC Biotechnology, [656]
Bull. Electrotech. Lab. (Japan), [2005]
Bull. Fac. Eng. Univ. Ryukyus (Japan), [1936]
Bull. Fac. Eng. Univ. Ryukyus (Japan), [1861, 2151, 2412, 2445, 2468]
Bull. Fac. Eng. Univ. Tokushima (Japan), [1184, 2524]
Bull. Nagoya Inst. Technol. (Japan), [1831]
Bulletin of Faculty of Engineering, Ryukyu (Japan), [1580]
Bulletin of Faculty of Engineering, Tokushima University (Japan), [173]
Chemical Physics Letters, [552]
Chemometrics and Intelligent Laboratory Systems, [2133]
Chin. J. Adv. Softw. Res. (USA), [1492]
CIRP Ann., [630]
Communications of the ACM, [2394, 2509]
Communications Research Laboratory, Journal, [284]
Complex Systems, [598]
Complex Systems (USA), [1185]
Composite Structures, [1067]
Comput. Electron. Agric. (Netherlands), [1748, 1850]
Comput. Ind. Eng. (UK), [1149]
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Journal of Intelligent & Fuzzy Systems,

Journal of Intelligent and Fuzzy Systems,

Journal of Intelligent Material Systems and Structures,

Journal of Japan Society for Fuzzy Theory and Systems,

Journal of Japanese Society for Artificial Intelligence,

Journal of Marine Science and Technology,

Journal of Materials Processing Technology,

Journal of Materials Science,

Journal of Molecular Liquids,

Journal of Molecular Structure: THEOCHEM,

Journal of Pressure Vessel Technology,

Journal of Robotics and Mechatronics,

Journal of Robotics Society of Japan,

Journal of Sound and Vibration,

Journal of Spacecraft and Rockets,

Journal of the Audio Engineering Society,

Journal of the Chemical Society – Perkin Transactions 1,

Journal of the Institute of Systems, Control, and Information Engineers (Japan),

Journal of the Japan Society for Aeronautical and Space Sciences,

Journal of the Japan Welding Society,

Journal of the Japanese Society of Artificial Intelligence,

Journal of the Operations Research Society of Japan,

Journal of the Society of Instrument and Control Engineers,

Journal of the Society of Naval Architects of Japan,

Journal of Theoretical Biology,

Jpn. J. Fuzzy Theory Syst. (USA),


JSME Int. J. C, Dyn. Control Robot, Des. Manuf. (Japan),

JSME Int. J. Ser. A,

JSME International, Journal C,

JSPP,

Kikai Gijutsu Kenkyusho Shoho,

Mater Sci Res. Int.,

Mater. Sci. Forum,

Mater. Sci. Res. Int. (Japan),

Materials Science and Engineering C,

Mathematical and Computer Modeling,

Med. Imaging Technol. (Japan),

Medical Imaging Technology,

Mem. Fac. Eng. Fukui Univ. (Japan),


Memos of the Faculty of Engineering, Fukui University,

Memos of the Faculty of Engineering, Fukui University (Japan),

Memos of the Faculty of Engineering, Okayama University,

Microcomput. Civ. Eng.,

Microcomput. Civ. Eng. (USA),

Microcomputers in Civil Engineering,

Microprocess. Microsyst. (UK),

Microwave and Optical Technology Letters,

Ministry of Posts & Telecommunications,

Mitsui Zosen Tech. Rev. (Japan),

Nature,

Nature Structural Biology,

Networks (USA),

Neural Networks,

Neural Process.,

Neurocomputing (Netherlands),

New Generation Computing,

New Generation Computing Journal,

Nihon Zosen Gakkai Ronbunshu,

Nippon Gakkai Gakkai Ronbunshu A Hen,

Nippon Gakkai Gakkai Ronbunshu C Hen,

Nippon Kikai Gakkai Ronbunshu A Hen,

Nippon Kikai Gakkai Ronbunshu B Hen,

Nippon Kikai Gakkai Ronbunshu C Hen,

Nippon Kikai Gakkai Ronbunshu B Hen,

Nippon Yoko Gakkaishi,

Nippon Robotto Gakkai Gakujutsu Koenkai Yokoshu,

NK Technical Report (Japan),

Nonlinear Analysis-Theory Methods & Applications,

NUCB Journal of Economics and Information Science,

Nucl. Med. Commun.,


Nucl. Technol.,

Nuclear Physics B Proceedings Supplements,

Nuclear Physics B, Proceedings Supplement,

Nuclear Technology,

Nucleic Acids Research,

Opt. Rev.,

Opt. Rev. (Japan),

Optics Express,

Optics Letters,

Pattern Recognition,

Pattern Recognition Letters,
Journal articles

Philosophical Transactions of the Royal Society of London B Biological Sciences, 2007
Physica B, 223 [456] 404
Physica C: Superconductivity, 218 [418] 517
Physica D, 220 [705]
Physica E, 241
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Physics of the Earth and Planetary Interiors, 265 [1765]
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Proceedings of the IEEE, 2466
Proceedings of the National Academy of Sciences of the United States of America, 208
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Quant. Struct.-Act. Relat, 2275
Railw. Gaz. Int., 695
Res. Rep. Kagakuin Univ. (Japan), 1082 [1355]

Researches on Population Ecology, 1626
Review of Scientific Instruments, 552
Robotics and Autonomous Systems, 975 [1349] 1553
SAR QSAR Environ. Res., 267
Science, 265 [531]

Sebutsu-Kogaku Kaishi - Journal of the Society for Fermentation and Bioengineering, 177
Seimitsu Kogaku Kaishi, 791 [1277] 1385
Seisan Gijutsu, 1977
Sens. Actuators, B, 333
Signal Processing, 1735

Smart Engineering System Design, 2316
Soft Computing, 190 [1884]
Struct. Optim. (Germany), 675 [833] 2261
Structural and Multidisciplinary Optimization, 503
Syst. Control Inf. (Japan), 1216 [1394] 1506 [1506] 1550 [1564]

Systems and Computers in Japan, 610 [1256] 2335
Systems, Control and Information, 95
Tech. Rep. Seikei Univ. (Japan), 1066 [1303]
The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 614
The International Journal in Computer Simulation, 820
Theoretical Computer Science, 125 [579] 2042 [2203]
Trans. Inst. Electr. Eng. Jpn. C (Japan), 994 [927] 1011 [1533] [1590] [1617] [1660] [1665] [1780] [1782] [1799] [1869]
2454 [2459] 2470 [2475]
1118 [1312] [1531] [1822] [1922] [2042] [2071] [2082] [2123]
Trans. Jpn. Assoc. Refrig. (Japan), 1633
1944 [2131] 2213 [2295] [2341] [2354] [2368] [2383]
Transaction of Systems, Control and Information, 90
Transaction of the Institute of Electrical Engineers of Japan B, 1519
Transaction of the Institute of Electrical Engineers of Japan C, 1039
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Transaction of the Institute of Electronics, Information and Communication Engineers A (Japan), 85 [179]
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Transaction of the Institute of Electronics, Information and Communication Engineers D-I (Japan), 189 [760]
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1347 [1372] [1374] [1429] [1466] [1522] [1587] [1722] [2438]
Transactions of the Institute of Electrical Engineers of Japan C, 1222
Transactions of the Institute of Electrical Engineers of Japan B, 853
Transactions of the Institute of Electrical Engineers of Japan C, 112 [648] [810] [839] [927] [975] [1023] [1358]
Transactions of the Institute of Electrical Engineers of Japan C, 112 [648] [810] [839] [927] [975] [1023] [1358]
174 [53] [72] [83] [120] [121] [204] [650]
765 [805] [808] [1018] [1124] [1187] [1193] [1199] [1245] [1251]
1254 [1507] [1520] [1608] [1820] [1874] [1904] [2192]
Transactions of the Institute of Electrical Engineers of Japan C), 1656
Transactions of the Institute of Electrical Engineers of Japan D, 1465 [1609] 1618
Transactions of the Institute of Electronics, Information and Communication Engineers (Japan), 82
Transactions of the Institute of Electronics, Information and Communication Engineers A (Japan), 995 [1031]
1416
Transactions of the Institute of Electronics, Information, and Communication Engineers D-II (Japan), 1462
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
- none

4.3.2 Master’s theses
This list includes also “Diplomarbeit”, “Tech. Lic. Theses”, etc.
- none

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.

Advanced Telecommunications Research Institute International, 206
AIAA, 887
Electrotechnical Laboratory, 31, 38, 77, 681, 814, 1143, 1524, 1551
IEICE, 216
Institute for New Generation Computer Technology, 126
International Institute for Advanced Study of Social Informatics, 125, 158
Kyoto University, 492
Mitsubishi Electric Corp., 20
Ochanomizu University, 1951
total 21 reports in 9 institutes

4.5 Patents

The following list contains the names of the patents of genetic algorithms in Japan. The list is arranged in alphabetical order by the name of the patent.

KANA/KANJI conversion optimizing device and KANA/KANJI conversion optimizing method, 1377
LSI element arranging method and device therefor, 271
OD table integer estimating device, 61
A method for producing multilayered optical filters, comprising a method for operating a genetic algorithm, 491
Active noise controller using genetic algorithm, 2014
Actuator Controller, 1728
Adaptation evaluation device, 1953
Adaptive evaluating device, 2253
Adaptive evolution type image compressing and encoding device, 2399
Air conditioning control device and recording medium which can be read by computer in which air conditioning control program is recorded, 2325
Analysis display processor related to genetic algorithm, 1907
Analysis method of reflection characteristic of reflecting plate, and computer-readable recording medium with the analysis program recorded thereon, 528
Analytical value estimating method and computer readable recording medium recording program for executing the same, 474
Apparatus and method for analyzing target motion by genetic algorithm, 1723
Apparatus for preparing supply and demand planning in power system, 2410
Apparatus for solving optimization problems and delivery planning system, 2248
Arrangement data similarity degree arithmetic unit, 1974
Arrangement optimization problem processing method and computer readable recording medium recording arrangement optimization problem processing program, 364
Assembly line designing method, 337
Assigning device, 741
Attitude detector, 1593
Automatic arranging method and automatic arrangement system, 2410
Automatic generating method for time-series pattern, 2102
Automatic lottery method, 407
Automatic package adjusting method and device therefor, 572
Automatic programming device, automatic programming method, and recording medium, 2441
Automatic time series pattern creating method, 2356
Autonomic asynchronous genetic algorithm parallel processor, 460
Blank layout method, 889
Blender optimization control system, 1308
Boring arrangement system using genetic algorithm, 2199
Circuit designing device and method using a genetic algorithm, 1617
Circuit designing method and circuit designing device, 2281
Circuit optimization simulator, 447
Cogeneration optimization algorithm using genetic algorithm, 2453
Coin identifying method and its device, 1646
Color generating method using genetic algorithm, 2245
Combination optimizing device, 271
Complier device, 742
Control device for air-conditioner, 2305
Control parameter controller for step motor type actuator, 1841
Control parameter setting method while applying genetic algorithm and storage medium stored with the method, 2423
Controller and air conditioner, 651
Controller for thermal storage plant, 2436
Controller for wide area wastewater sending system, 340
Controlling equipment of refrigerating cycle, 1316
Conveying order deciding method and its device, 2387
Data processor utilizing refrigerating cycle and storage medium, 2361
Data structure for system kitchen editing and designing, 439
Design method for optical thin film and design device for optical film, 387
Determination system for combination optimizing problem, 607
Device and method for circuit design, 1872
Device and method for detecting posture, 835
Device and method for element arrangement, 1582
Device and method for executing genetic algorithm, 1259
Device and method for external character register for character recognition, 726
Device and method for generating schedule, and recording medium with schedule generating program recorded thereon, 185
Device and method for preparing train diagram by genetic algorithm/neuro, 855
Device and method for scheduling and recording medium stored with its scheduling program, 282
Device and method for searching for relevant function, 434
Device and method for searching optimum solution and program recording medium, 321
Device and method for sentence phoneme recognition, 1454
Device for analyzing material characteristic of film, 428
Device for constructing segment generation type predicted model and method therefor, 2117
Device for generating route of robot arm, 634
Device for laying out automatically component on printed board, 786
Die spray robot teaching method, 2170
Digital circuit and clock signal control method therefor, 339
Digital system, clock signal control method for the same and recording medium storing processing program to be run by the method, 401
Directionally compositing method for conformal array antenna and medium storing the method, 2177
Distribution line control system, 2277
District heat supply plant controller, [479]
Electronic controller using evolution techniques suitable for controlling a motor, [999]
Element arrangement method of LSI, [879]
Element thinning method of array antenna and storage medium recording element thinning program of array antenna, [690]
Elevator control system, [1679]
Equalizer device, [459]
Equipment and method for adjusting control gain of servo system, [1747]
Evaluation method for a hereditary algorithm, [322]
Evolutionary control of machine based on user’s preference inferred from user’s operation, [440]
Evolutionary controlling system, [488]
Evolutionary controlling system with behavioral simulation, [371]
Face area detector, [2282]
Face image displacement detection device, [950]
Fast processing method for genetic algorithm, [739]
Fitness function circuit, [477]
Forming equipment and forming method of power system constitution, and storage medium and power system thereof, [2411]
Fuzzy inference device, [633]
Generating method for sound using genetic algorithm and medium where program is recorded, [2337]
Genetic algorithm analysis display processor, [1851]
Genetic algorithm analytic display processor, [2149]
Genetic algorithm execution device, [1606]
Genetic algorithm machine and its production method, and method for executing a genetic algorithm, [2304]
Genetic algorithm mounting method and network optimizing using the same, [883]
Genetic algorithm optimizing process and storage medium, [2354]
Genetic algorithm processing method, [462]
Genetic algorithm processor, [393]
Global control method, [2297]
Global search device for parallel genetic algorithm utilizing local solution and storage medium stored global search program of parallel genetic algorithm using search device and local solution, [2204]
House design system using genetic algorithm, [487]
House design system using genetic algorithm, [950] [320]
Identification device for mechanical system, [150]
Image converter, image conversion method, learning device, learning method and transmission medium, [2443]
Image processor, [690]
Image processing apparatus and method, [299]
Image processing method and device, [220]
Image processing method and device for the method, [1963]
Information processing device and method applying genetic algorithm, [520]
Information processing system with combination limitation, [724]
Information processor, [683] [885]
Information processor, its method and its distribution medium, [950]
Information providing method utilizing inference and genetic algorithm, [2357]
Intermediate object linking method and unit, [493]
Learning method for sorting element system, [2339]
Learning system of recurrent neural network of coupling type, [934]
Load schedule planning method, [466]
Logic circuit test pattern generating device, [448]
Magnetizing state evaluating method for magnetic recording medium, [351]
Manufacture of multilayer film filter utilizing genetic algorithm, [372]
Map display method and recording medium, and map display device, [274]
Mask for exposing and its production, [737]
Material design support system, [479]
Material designing method and material designing device for performing the same method, [1818]
Mathematical plan calculation device, distribution plan system, medium stored with mathematical plan program, and medium stored with distribution plan program, [1947]
Method and device for selecting route, [1505]
Method for minimizing loss in distribution system, [1836]
Metal mold design method and production of metal mold, [2333]
Method and apparatus for analyzing substance structure, [471]
Method and apparatus for designing materials for alloy compositions, [1906]
Method and device for assigning chromosome, [899]
Method and device for calculating optimization solution of multiple mutant protein amino acid sequence, and storage medium where program for executing the method is stored, [622]
Method and device for controlling communication service quality, [275]
Method and device for evaluating character recognition device, [1183]
Method and device for generating musical sound waveform, [2147]
Method and device for learning neural network, [637]
Method and device for operating genetic algorithm, [2443]
Method and device for operating genetic algorithm and environment adaptation type system using operating device, 1392
Method and device for optimization processing using genetic algorithm, 1809, 2474
Method and device for optimizing process using genetic algorithm, 1898, 1924
Method and device for process control, 857
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Method and device for scheduling job shop, 1403
Method and device for scheduling personnel arrangement, and recording medium recorded with personnel arrangement scheduling program, 774
Method and device for searching optimum solution, 1638
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Method and device for supporting personnel placement, and storage medium recorded with personnel placement support program, 2332
Method and system for packing using genetic algorithm for arrangement problem, 224
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Method for adjusting electronic circuit package and automatic adjusting device, 1234
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Method for extracting outline and device therefor, 1982
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Method for identifying non-linear system by genetic algorithm, 514
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Method for matching template, 970
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Method for optimizing genetic algorithm and system for analyzing genetic algorithm, 1804
Method for optimizing mask using genetic algorithm for pattern recognition, 845
Method for optimizing mounting of electronic part, 2051
Method for optimizing nn synapse combined load, 270
Method for organizing lots of continuous casting, 2398
Method for processing image, and method for extracting facial area and device thereof, 291
Method for programming distribution system, 111
Method for scheduling instruction string, 876
Method for scheduling physical distribution in rolling mill, 862
Method for searching optimum solution, 1714
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Method for solving optimization problem by means of genetic algorithm, 279
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Method for water use planning process using genetic algorithm, 339
Method of arranging magnet, 635
Method of designing multipurpose formulation of feed, 469
Method of determining movement sequence, alignment apparatus, method and apparatus of designing optical system, and medium in which program realizing the designing method, 453
Methods, based on a genetic algorithm, for configuring parameters of an array of multiple components for cooperative operation to achieve a desired performance result, 444
Microrobot control device and method, 114
Multi-mode optimization technology in test formation, 388
Multi-valued dither matrix optimizing device, 227
Multipurpose optimization method, 1423
Network composing method, 1432
Network topology designing device, network topology designing method and recording medium stored with network topology design program, 2358
Neural network, 1935
Neuro computer, 761
Nonlinear time-series data predicting device, 1381
Office arrangement system using genetic algorithm and recording medium, 2011
Offline teaching method, 2345
On-line evaluating method for solid body by genetic algorithm, 2413
Operation controlling method for heat supplying plant, 1168
Operation method for genetic algorithm and method for manufacturing multi-layer film light filter using the same, 468
Operation method of thermal energy supply plant, 269
Operation support apparatus of water treatment plant, 445
Optimally designing system of fastening structure using genetic algorithm, 2420
Optimization control method and device therefor, 1786
Optimization design system using genetic algorithm, 431
Optimization method and device using object-oriented genetic algorithm, 2362
Optimization problem processing method for island model of hybrid type genetic algorithm and processing program recording medium therefor, 403
Optimization problem solving method and optimization device, 1208
Optimization processing method and device using genetic algorithm, 2467
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Optimizing device and method thereof by genetic algorithm based on unbalanced evolution theory, 1737
Optimizing device having immunity combined with genetic algorithm and storage medium stored with optimizing program having immunity combined with genetic algorithm, 2043
Optimizing method and optimizing device, 935
Optimizing method by genetic algorithm, 2329
Optimizing method using genetic algorithm and is device, 2148
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Optimizing problem resolution processor, 632
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Pattern recognition method and pattern recognition dictionary preparation method and device therefor, 2445
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Planning method for replacement of temporary scaffolding, 2173
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Power distribution system loss minimizing method, 2417
Power generation planning method for hydroelectric power plant, 458
Prediction device for optimum parameter combination, 1978
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Relational function searching device and method therefor, 1813
Robust optimization method for cogeneration system constitution, 277
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line-segment circuits, migration, mimetic algorithm, mineralogy, mirrors, deformable, mixed-integer programming, mobile robot, control, navigation, mobile robotics, control, mobile robotics autonomous, mobile robots, obstacle avoidance, walking, model identification, modelling, fuzzy, MOGA, molecular computing, TSP, molecular dynamics, morphological filters, motion control, motion planning, motor, electrical, motors, induction, stepper, multi-valued logic, multimedia, image retrieval, multipopulation, music, instruments, mutation, adaptive.
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See the full text for more bibliographic information.


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Notations

†(ref) = the bibliography item does not belong to my collection of genetic papers.
* = 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 \LaTeX{} and reproduced from camera-ready copy supplied by the editor. The ones who are familiar with \TeX{} may have noticed that the references are printed using \emph{abbrv} bibliography style and have no difficulties in interpreting the entries. For those not so familiar with \TeX{} 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), \emph{Title}, Publisher, Publisher’s address, year.

Example


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

Example


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

Proceedings article: Author(s), Title, editor(s) of the proceedings, \emph{Title of Proceedings}, [volume,] pages, location of the conference, date of the conference, publisher of the proceedings, publisher’s address.

Example


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

Example

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:
• 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 for further details.
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