

## MOEA-Related Information

### I.1 Introduction

This appendix includes the following MOEA-related information:

- Websites of interest
- Conferences that have had at least an evolutionary multiobjective optimization component
- Journals that have published in the past papers on evolutionary multiobjective optimization
- Researchers that work in evolutionary multiobjective optimization
- Distribution lists of interest to MOEA researchers

Most of the information of this appendix has been taken from the EMOO repository at:

<http://delta.cs.cinvestav.mx/~ccoello/EMOO/>

with a mirror at:

<http://www.lania.mx/~ccoello/EMOO/>

Table I.1: Websites of interest

URL	Description
<a href="http://webhost.ua.ac.be/eume/">http://webhost.ua.ac.be/eume/</a>	European Chapter on Metaheuristics
<a href="http://www.terry.uga.edu/mcdm/">http://www.terry.uga.edu/mcdm/</a>	International Society on Multiple Criteria Decision Making

## I.2 Websites of Interest

Besides the EMOO repository mentioned above, there are several other websites that may be of interest for researchers working in this area. Table I.1 describes some of them.

## I.3 Conferences

Table I.2: Conferences of interest

Conference	Organizers and Further Info
International Conference on Multiple Criteria Decision Making	Organized by the International Society on Multiple Criteria Decision Making; Information about this conference (including some of its previous editions) can be found at: <a href="http://project.hkkg.fi/MCDM/conf.html">http://project.hkkg.fi/MCDM/conf.html</a>
Metaheuristics International Conference	The European Chapter on Metaheuristics; Information about this conference (including some of its previous editions) can be found at: <a href="http://webhost.ua.ac.be/eume/">http://webhost.ua.ac.be/eume/</a> (under <b>Information Pages</b> )
The International Conference on Evolutionary Multi-Criterion Optimization. This is the major conference in the field and it takes place every two years. The previous editions were: EMO'2001 (Zürich, Switzerland), EMO'2003 (Faro, Portugal), EMO'2005 (Guanajuato, México) and EMO'2007 (Matsushima, Japan).	Different organizers, with a steering committee. No standard website for the conference exists, so particular websites for each edition of the conference must be located in the Internet.

Most conferences on evolutionary computation have recently included papers on multiobjective optimization. The Genetic and Evolutionary Computation Conference (GECCO) had a workshop on this subject in 1999 (organized by Kalyanmoy Deb), and it has had tutorials on this area in all its editions since then. The Conference on Evolutionary Computation (CEC) had a special session on EMOO in 2000 (organized by Carlos Coello Coello). The conference Parallel Problem Solving from Nature (PPSN) had a workshop on EMOO (organized by Joshua Knowles).

Other conferences that have included (or may receive) papers on evolutionary multiobjective optimization are shown in Table I.2.

## I.4 Journals

Table I.3: EMOO Journals

Journal	Publisher
Evolutionary Computation	The MIT Press
IEEE Transactions on Evolutionary Computation	IEEE

Table I.3: (continued)

Journal	Publisher
European Journal of Operational Research	Elsevier Science Publishers
Engineering Optimization	Gordon & Breach Science Publishers
IEEE Transactions on Systems, Man, and Cybernetics	IEEE
Journal of Heuristics	Kluwer Academic Publishers

Table I.3 shows the main journals related to evolutionary computation, optimization, or operations research, that have published in the past papers on evolutionary multiobjective optimization.

The journal *Evolutionary Computation* published a special issue on the subject in the summer of 2000 (Volume 8, Number 3), edited by Kalyanmoy Deb and Jeffrey Horn. Also, the *Journal of Heuristics* published a special issue on Multiple Objective Metaheuristics on August of 2000 (Volume 6, Issue 3), edited by Xavier Gandibleux, Andrzej Jaszkievicz, Arnaud Fréville and Roman Slowinski. The *IEEE Transactions on Evolutionary Computation* published a special issue on this topic in April 2003 (Volume 7, Number 2), edited by Carlos A. Coello Coello. Also, the *European Journal of Operational Research* published a special issue on Evolutionary Multi-Objective Optimization in November 2007 (Volume 181, Number 3), edited by Carlos A. Coello Coello, Arturo Hernández Aguirre and Eckart Zitzler. More special issues are likely to be published in the near future, since no journal exists that is fully devoted to evolutionary multiobjective optimization.

## I.5 Researchers

Table I.4: EMOO Researchers

Name	Main Research Interests	Contact Information
Shapour Azarm	Applications of MOEAs in mechanical engineering; Performance measures; Constraint-handling techniques for MOEAs	Department of Mechanical Engineering, University of Maryland, College Park, MD 20742-3035, USA, e-mail: azarm@umd.edu, URL: <a href="http://www.enme.umd.edu/facstaff/fac-profiles/azarm.html">http://www.enme.umd.edu/facstaff/fac-profiles/azarm.html</a>
Jürgen Branke	Incorporation of preferences into MOEAs; Dynamic optimization; Multiobjective particle swarm optimization	Institute AIFB, University of Karlsruhe, 76128 Karlsruhe, Germany, e-mail: branke@aifb.uni-karlsruhe.de, URL: <a href="http://www.aifb.uni-karlsruhe.de/~jbr/jbr.engl.html">http://www.aifb.uni-karlsruhe.de/~jbr/jbr.engl.html</a>
Peter Bentley	MOEAs for design; Compromise programming for MOO	Intelligent Systems Group, Department of Computer Science, University College London, Gower Street, London WC1E 6BT, United Kingdom, e-mail: P.Bentley@cs.ucl.ac.uk, URL: <a href="http://www.cs.ucl.ac.uk/staff/P.Bentley/">http://www.cs.ucl.ac.uk/staff/P.Bentley/</a>
Dirk Büche	Engineering applications of MOEAs; Self-adaptation; Evolution strategies	Institute for Thermo and Fluid Engineering, Klosterzelgstr. 2, Room 2.107a, 5210 Windisch, Switzerland, e-mail: d.bueche@fh-aargau.ch, URL: <a href="http://www.openopal.org/members/dirk_bueche/">http://www.openopal.org/members/dirk_bueche/</a>

Table I.4: (continued)

Name	Main Research Interests	Contact Information
Pedro Jorge Sequeira Cardoso	Multiobjective ant colony optimization; Multiobjective combinatorial optimization	Campus da Penha, ADEE - EST - Univ. do Algarve, 8005-139 Faro, Portugal, e-mail: pcardoso@ualg.pt, URL: <a href="http://w3.ualg.pt/~pcardoso">http://w3.ualg.pt/~pcardoso</a>
Nirupam Chakraborti	Applications of MOEAs in metallurgical and materials engineering	Metallurgical & Materials Engineering, Indian Institute of Technology, Kharagpur 721 302, India, e-mail: nchakrab@iitkgp.ac.in, URL: <a href="http://www.iitkgp.ac.in/fac-profiles/showprofile.php?empcode=bbmZW">http://www.iitkgp.ac.in/fac-profiles/showprofile.php?empcode=bbmZW</a>
Carlos A. Coello Coello	Incorporation of preferences into MOEAs; Target-vector approaches; Constraint-handling in MOEAs; New MOEAs; Alternative heuristics for MOO	CINVESTAV-IPN, Departamento de Computación, Av. Instituto Politécnico Nacional No. 2508, Col. San Pedro Zacatenco, México, D.F. 07360, e-mail: ccoello@cs.cinvestav.mx, URL: <a href="http://delta.cs.cinvestav.mx/~ccoello/">http://delta.cs.cinvestav.mx/~ccoello/</a>
Lino Antonio Costa	New MOEAs; Multiobjective evolution strategies, Industrial applications of MOEAs	Dept. of Production and Systems Engineering, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal, e-mail: lac@dps.uminho.pt, URL: <a href="http://sarmiento.eng.uminho.pt/~dps/lac">http://sarmiento.eng.uminho.pt/~dps/lac</a>
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Kalyanmoy Deb	Test Functions; New MOEAs; Engineering applications of MOEAs	Department of Mechanical Engineering, Indian Institute of Technology, Kanpur, Pin 208 016, India, e-mail: deb@iitk.ac.in, URL: <a href="http://www.iitk.ac.in/kangal/deb.shtml">http://www.iitk.ac.in/kangal/deb.shtml</a>
Robert P. Dick	Use of MOEAs for co-synthesis of hardware-software embedded systems	Department of Electrical Engineering and Computer Science, Robert R. McCormick School of Engineering & Applied Science, Technological Institute, L477, 2145 Sheridan Road Evanston, IL, USA 60208, email: dickrp@northwestern.edu, URL: <a href="http://ziyang.eecs.northwestern.edu/~dickrp/">http://ziyang.eecs.northwestern.edu/~dickrp/</a>
Georges M. Fadel	Use of MOEAs in CAD problems	College of Engineering and Science, Mechanical Engineering Department, Clemson University, Clemson, SC 29634-0921, USA, e-mail: fgeorge@clemson.edu, URL: <a href="http://www.ces.clemson.edu/me/credo/people/faculty/fadel.html">http://www.ces.clemson.edu/me/credo/people/faculty/fadel.html</a>
Marco Farina	Many-objectivity; MOEAs in dynamic problems	Softcomputing, Silicon Optics and Post-Silicon, Technologies Corporate R&D, STMicroelectronics, 20041 Agrate Brianza MI, Via C. Olivetti,2, Italy, e-mail: marco.farina@st.com, URL: <a href="http://www.unipv.it/electric/cad/PEOPLE_res_cons_farina.htm">http://www.unipv.it/electric/cad/PEOPLE_res_cons_farina.htm</a>

Table I.4: (continued)

Name	Main Research Interests	Contact Information
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Carlos M. Fonseca	Performance measures for MOEAs; New MOEAs, Incorporation of preferences	Unidade de Ciências Exactas e Humanas, Universidade do Algarve, Campus de Gambelas, 8000 Faro, Portugal, e-mail: cmfonsec@ualg.pt, URL: <a href="http://w3.ualg.pt/~cmfonsec/">http://w3.ualg.pt/~cmfonsec/</a>
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Jeffrey Horn	New MOEAs; Engineering Applications; Sharing and Niching	Department of Mathematics and Computer Science, Northern Michigan University, Marquette, Michigan 49855-5340, USA, e-mail: jhorn@nmu.edu, URL: <a href="http://euclid.nmu.edu/~jeffhorn">http://euclid.nmu.edu/~jeffhorn</a>

Table I.4: (continued)

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Andrzej Jaskiewicz	Multiobjective Combinatorial Optimization; Operations Research; Metrics; Local search; Alternative heuristics for multiobjective optimization; New MOEAs	Institute of Computing Science, Poznan University of Technology, Piotrowo 3a, 60-965 Poznan, Poland, e-mail: jaskiewicz@cs.put.poznan.pl, URL: <a href="http://www-idss.cs.put.poznan.pl/~jaskiewicz/">http://www-idss.cs.put.poznan.pl/~jaskiewicz/</a>
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Joshua D. Knowles	New MOEAs; Local search (hillclimbers); Applications in Telecommunications; Multiobjectivity	School of Computer Science, The University of Manchester, Manchester Interdisciplinary Biocentre (Room 2.016), 131 Princess Street, Manchester M1 7DN, UK, e-mail: j.knowles@manchester.ac.uk, URL: <a href="http://dbkgroup.org/knowles/">http://dbkgroup.org/knowles/</a>
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Gary B. Lamont	New MOEAs; Comparative studies; Theory; Parallel MOEAs	Air Force Institute of Technology, 2950 P.St., WPAFB, Dayton, Ohio 45433, USA, e-mail: Gary.Lamont@afit.edu, URL: Not Available
Marco Laumanns	New MOEAs; Unified models for MOEAs; Design space exploration; hardware/software co-design; System synthesis; Theory	Computer Engineering and Networks Laboratory (TIK), Department of Electrical Engineering, ETH Zürich, ETH Zentrum, ETZ G90, Gloriastrasse 35, CH-8092 Zürich, Switzerland, e-mail: laumanns@tik.ee.ethz.ch, URL: <a href="http://www.tik.ee.ethz.ch/~laumanns/">http://www.tik.ee.ethz.ch/~laumanns/</a>

Table I.4: (continued)

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Andrzej Osyczka	New MOEAs; Applications in Mechanical Engineering	Department of Mechanical Engineering, Cracow University of Technology, Al. Jana Pawła II 37, 31-864, Kraków, Poland, e-mail: osyczka@mech.pk.edu.pl, URL: <a href="http://m6.mech.pk.edu.pl/~osyczka/">http://m6.mech.pk.edu.pl/~osyczka/</a>
Geoffrey T. Parks	Applications in Nuclear Engineering	The University of Cambridge, Department of Engineering, Trumpington Street, Cambridge CB2 1PZ, United Kingdom, e-mail: gtp@eng.cam.ac.uk, URL: <a href="http://www.edc.eng.cam.ac.uk/people/gtp.html">http://www.edc.eng.cam.ac.uk/people/gtp.html</a>
Ian C. Parmee	Conceptual design; Engineering applications of MOEAs; Uncertainty management	Advanced Computation in Design and Decision-Making, CEMS, University of the West of England, Frenchay Campus, Coldharbour Lane, Bristol BS16 1QY, UK, e-mail: Ian.Parmee@uwe.ac.uk, URL: <a href="http://www.cems.uwe.ac.uk/exist/studentperson.xml?name=Ian%20Parmee">http://www.cems.uwe.ac.uk/exist/studentperson.xml?name=Ian%20Parmee</a>

Table I.4: (continued)

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Tapabrata Ray	New MOEAs; Engineering applications of MOEAs	School of Aerospace, Civil and Mechanical Engineering, Rm. 202, Bldg. 17, University of New South Wales, ADFA Campus, Northcott Drive, Canberra ACT 2600, Australia, e-mail: t.ray@adfa.edu.au, URL: <a href="http://www.unsw.adfa.edu.au/acme/staff/pages/ray.html">http://www.unsw.adfa.edu.au/acme/staff/pages/ray.html</a>
Brahim Rekiek	Incorporation of preferences; Applications in Assembly line balancing	Detroit Services Solutions (dSS), Belgium, e-mail: brahim.rekiek@gmail.com, URL: Not Available
Peter Rockett	New MOEAs; Applications in machine learning; Hybrids with neural networks	Department of Electronics, University of Sheffield, Mappin St Sheffield S1 3JD, United Kingdom, e-mail: p.rockett@sheffield.ac.uk, URL: <a href="http://www.shef.ac.uk/eee/staff/p_rockett.html">http://www.shef.ac.uk/eee/staff/p_rockett.html</a>
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K. Jane Shaw	Applications in Scheduling; Incorporation of Preferences; Multiobjective Combinatorial Optimization	Unilever Research Port Sunlight, Quarry Road East Bebington, Wirral CH63 3JW, United Kingdom, e-mail: Jane.Shaw@Unilever.com, URL: <a href="http://www.shef.ac.uk/~gaipp/shaw.html">http://www.shef.ac.uk/~gaipp/shaw.html</a>
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Table I.4: (continued)

Name	Main Research Interests	Contact Information
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A list of researchers with special interest in evolutionary multiobjective optimization is shown in Table I.4. Their main research interests and their contact information are also included for those who may be interested in getting in touch with them. Thanks a lot to all of them for contributing to the EMOO repository.

## I.6 Distribution Lists

The only distribution list that specializes on evolutionary multiobjective optimization is the *emo-list* available at:

<http://w3.ualg.pt/lists/emo-list/>

This distribution list is maintained by Carlos Fonseca (cmfonsec@ualg.pt) at the University of Algarve, in Portugal.

It may also be useful to incorporate to the distribution list of the International Society on Multiple Criteria Decision Making, called MCRIT-L. Information about this list can be found at:

<http://www.terry.uga.edu/mcdm/elect.html>