

International Society on Multiple Criteria Decision Making



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Letter from the President-Elect

Dear Members,

Quite some time has passed since the previous newsletter was published. First of all, I wish to thank you for your support in the election we had last spring. Being the President-Elect of our Society is a very important position of trust in our field and I am very humble for the honour of being elected to follow the footsteps of colleagues of high repute like Stan Zionts, Ralph E. Steuer, Pekka Korhonen, Valerie Belton, Theodor Stewart and Jyrki Wallenius. I shall do my best in order to serve the Society, that is, its members!

The results of the election 2008 were announced in the previous newsletter, but there has been one more change in the Executive Committee after that. The Society needed a new secretary and the Executive Committee has appointed Prof. Francisco Ruiz from the University of Malaga as the new secretary. Thus, the members of the Executive Committee are the following:

Executive Committee

Jyrki Wallenius, President of the Society Helsinki School of Economics President@mcdmsociety.org	Finland	2008–2011
Jim Corner University of Waikato	New Zealand	2008–2011
Kalyanmoy Deb IIT Kanpur/Helsinki School of Economics	India/Finland	2008–2011
Matthias Ehrgott, Past Meeting Ex-Officio University of Auckland	New Zealand	2008–2009
Xavier Gandibleux University of Nantes	France	2008–2011
Martin Geiger, Newsletter Editor University of Southern Denmark	Denmark	2008–2011
Salvatore Greco Universita di Catania	Italy	2006–2009
Birsan Karpak, Vice-President of Finance Youngstown State University	USA	2008–2011
Kathrin Klamroth University of Erlangen Nuremberg	Germany	2006–2009
Murat M. Köksalan, Chairman of the Awards Committee Middle East Technical University	Turkey	2006–2009
Kaisa Miettinen, President-Elect University of Jyväskylä President-elect@mcdmsociety.org	Finland	2008–2011
Gilberto Montibeller London School of Economics	UK	2008–2011
Yong Shi, Future Meeting Ex-Officio Chinese Academy of Sciences/ University of Nebraska at Omaha	China/USA	2008–2009
Theodor J. Stewart, Immediate Past-President University of Cape Town	South-Africa	2008–2011
Daniel Vanderpooten l'Université Paris Dauphine	France	2006–2009
Luis Vargas University of Pittsburgh	USA	2006–2009
Shouyang Wang, Future Meeting Ex-Officio Chinese Academy of Sciences	China	2008–2009
Francisco Ruiz, Secretary University of Málaga Secretary@mcdmsociety.org	Spain	2008–2009

Secondly, it is my pleasure to tell you that we have a new domain name for our Society: <http://www.mcdmsociety.org>. At the moment, it has the old contents but we want to redesign the layout. If you have any experience or expertise in this, we warmly invite you to help. Please, do not hesitate to contact e. g. me: President-elect@mcdmsociety.org.

Related to the new domain name, we have new email addresses: President@mcdmsociety.org, President-elect@mcdmsociety.org and Secretary@mcdmsociety.org. We shall set up more addresses of this form as the need arises. Thus, it is now hopefully easier to contact officers of the Society!

The next International Conference on MCDM (<http://www.mcdm2009.cn/default.html>) will take place in June 2009 and I wish you can advertise the event in different ways. In addition, there are many more conferences in the near future related to MCDM, including e.g. 2009 IEEE Symposium on Computational Intelligence in Multicriteria Decision-Making (IEEE MCDM 2009), Nashville, TN, USA, March 30 – April 2, 2009 (<http://www.ieee-ssci.org/index.php?q=node/12>), EMO'09, 5th International Conference devoted to Evolutionary Multi-Criterion Optimization, April 7–10, 2009, Nantes, France (<http://www.emo09.org/>) and IFAC Workshop on Control Applications and Optimization, CAO'09 in Jyväskylä, Finland, May 6–8, 2009 (<http://www.automaatioseura.fi/CAO'09>).

Kaisa Miettinen
President-Elect
International Society on MCDM
President-elect@mcdmsociety.org

1 Society News

1.1 The 20th International Conference on Multiple Criteria Decision Making, June 21–26, 2009, Chengdu/ Jiuzhaigou, China

Theme: New State of MCDM in 21st Century

<http://www.mcdm2009.cn/>

Hosted by University of Electronic Science and Technology of China



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Accepted papers will be published in the conference proceedings in Lecture Notes in Economics and Mathematical Systems (Indexed by EI). Selected papers will be fast-track reviewed for special issues in some SCI-indexed international journals (such as Annals of Operations Research, Journal of Multi Criteria Decision Analysis, International Journal of Information Technology and Decision Making, and so on).
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The International Conference on Multiple Criteria Decision Making has emerged as the global forum dedicated to the sharing of original research results and practical development experiences among researchers and application developers from different multiple criteria decision making related areas such as multiple criteria decision aiding, multiple criteria classification, ranking, and sorting, multiple objective continuous and combinatorial optimization, multiple objective metaheuristics, multiple criteria decision making and preference modeling, fuzzy multiple criteria decision making.

The theme for MCDM 2009 is “New State of MCDM in 21st Century”. The conference seeks solutions to challenging problems facing the development of multiple criteria decision making, and shapes future directions of research by promoting high quality, novel and daring research findings. With the MCDM conference, these new challenges and tools can easily be shared with the multiple criteria decision making community. MCDM 2009 will invite a number of well-known MCDM scholars to deliver keynote or plenary speeches which include their experiences with the remarkable MCDM history, important contributions to MCDM and/or creative thinking towards the future development of MCDM. As the tradition of MCDM Conference Series, the main conference sessions on June 22–26, 2009 have an equal emphasis on all aspects of MCDM related topics that will affect scientific, social and economic development of the 21st century. Moreover, MCDM 2009 creates new tutorial and workshop programs on June 21, 2009 before the main conference. The tutorial program of this conference will be invitation-based and cover emerging MCDM technologies and the state-of-the-art of MCDM developments. The workshop program will focus on new research challenges and initiatives.

Call for Abstract of Conference Papers

As part of tradition at MCDM Conferences, contributors to the main conference sessions at MCDM 2009 should submit abstracts. The author’s names, addresses, phone numbers and e-mails must be listed starting with the presenting author. Electronic submission (in MS Word or L^AT_EX format) through e-mail is strongly preferred. Abstracts will be reviewed to determine whether acceptance for presentation is appropriate. A common style is important, since Conference Proceedings of abstracts will be published. A hard copy of the abstracts will be distributed with the Conference Program.

After the conference, contributors are encouraged to submit a full-length paper to either a post conference proceedings that will be published in 2010 by Springer’s the *Lecture Notes in Economics and Mathematical Systems* or several special issues of academic journals in the specified

format. Such papers will be peer-reviewed for their qualification of publication. Papers from all areas of MCDM, in particular those addressing the conference theme, are welcome to the main conference sessions. The topics include, but are not limited to:

– Foundations of MCDM – MCDM algorithms and methods – MCDM application on pattern recognition and trend analysis – MCDM Applications in government, health or public affairs – MCDM based data mining approaches – MCDM in electronic commerce, web and intrusion detection – MCDM software – MCDM Theory and practice of fictitious economy – Multi-objective integer or linear programming – Multiple attribute utility theory – Multiple criteria classification, ranking, and sorting – Multiple criteria decision aiding – Multiple criteria in finance, marketing, operations or human resource management – Multiple objective continuous and combinatorial optimization – Multiple objective metaheuristics – Analytic hierarchy process or analytic network process – Artificial Intelligence and MCDM – Asset liability management – Complexity, efficiency, and scalability issues in MCDM – Conflict resolution, negotiation, and group decision support – Data envelopment analysis – Data mining and knowledge management – Decision support systems – Dynamic programming – Environmental analysis and MCDM – Fuzzy multiple criteria decision making – Fuzzy Systems and MCDM – Game theory and MCDM – Goal programming – Group decision making – Habitual Domain Analysis – Intelligent decision support systems – Issues of MCDM measurement – Outranking techniques – Preference modelling – Regional economy development – Resource allocation – Risk and uncertainty – Risk management by MCDM – Social and behavioral studies of MCDM processes – Statistics and probability in MCDM

Committee and Chairs

Honorary Chairs:

Siwei Cheng, Director of Research Center on Fictitious Economy and Data Science, Chinese Academy of Science, China

Po Lung Yu, University of Kansas, USA Jifa Gu, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China

Weixuan Xu, Institute of Policy and Management, Chinese Academy of Sciences, China

Conference Organizing Committee Chairs:

Yong Shi, Graduate University of Chinese Academy of Sciences, China/ University of Nebraska at Omaha, USA

Shouyang Wang, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China

Important Dates

For Abstract of Conference Papers:

Electronic submission of abstracts of conference papers: February 28, 2009

Notification of acceptance: March 31, 2009

Final advanced registration: May 1, 2009.

For Tutorials:

Electronic proposal submission: December 31, 2008

Notification of acceptance: March 31, 2009.

For Workshop Papers:

Full papers submission: December 15, 2008

Notification of workshop paper acceptance: January 1, 2009

Camera-ready of accepted workshop papers: January 31, 2009

Final advanced registration of workshop opens: January 31, 2009

Paper Status must be OK: March 10, 2009

Final advanced registration of workshop closes: March 10, 2009.

The submitted paper must be camera-ready and formatted according to the rules of LNCS (for formatting information see [Information for LNCS Authors](#)). Submission implies the willingness of at least one of the authors to register and present the paper.

Please, note that papers must not exceed eight pages in length, when typeset using the LNCS format. A paper without figures can be around 4500 words maximally.

Conference website: <http://www.mcdm2009.cn/>

1.2 Call for Nominations: MCDM Awards

Murat Köksalan, Middle East Technical University, Turkey

The International Society on Multiple Criteria Decision Making (MCDM) has been presenting awards at each of its meetings since 1992. The next set of awards will be presented at the 20th International Conference on MCDM in Chengdu/Jiuzhaigou, China, June 22-26, 2009 (<http://www.mcdm2009.cn/>). The Society welcomes nominations for the following awards:

- MCDM Gold Medal,
- Edgeworth-Pareto Award, and
- Georg Cantor Award.

Submit nominations to: Professor Murat Köksalan, Industrial Engineering Department, Middle East Technical University, 06531 Ankara, Turkey or (preferably) by e-mail, koksalan@ie.metu.edu.tr. Contact him for further information.

To assure full consideration:

1. Make the nominations by March 16, 2009.
2. Indicate the name of the nominee, why he or she is worthy of the award, his/her contributions to the field, and anything else that is relevant to the award.
3. Provide a CV of the nominee.

Awardees are expected to attend the conference and give a talk. More information concerning the awards and past awardees may be found on the web site at <http://www.mit.jyu.fi/MCDM/intro.html#Awards>.

2 Upcoming Events and Call for Papers

2.1 8th International Workshop on Operations Research, March 2–6, 2009, Havana, Cuba

Workshop topic: Operations Research for Human's Welfare

Organized by:

Universidad de La Habana

Humboldt-Universität zu Berlin

Université Paris 1, Panthéon-Sorbonne

The Workshop

This is the 8th edition of a series of monothematic meetings developed in Havana. They concentrate the efforts in discussing recent results and experiences in the use of Operations Research in the subject of the workshop. Previous editions have been dedicated to Medicine, Transport, Biological and Economical aspects. This edition is dedicated to applications of the Operations Research to Social Development (protection of the environment, human health, economy and culture). The meeting is planned to be attended by a group of specialists from all around the world and by Cuban students and professionals. The exchange has been fruitful and a series of papers have been published and different international joint research projects have had their roots in the contacts started at these so called OR-Workshops.

Program Committee

S. Allende (Havana), L. Alvarez (Havana), C. Bouza (Havana), M. Cottrell (Paris 1), J. Daduna (Berlin), W. Domschke (Darmstadt), J. Guddat (Chair, Berlin), A. Griewank, (Berlin), P. Gaubert (Creteil), P. Gourdel (Paris), A. Iussem (Rio de Janeiro), G. Joya (Malaga), L. Rodríguez-Marín (Madrid), J. Rückman (Birmingham), A. Ruiz (Havana), B. Wegner (Berlin), A. Weintraub (Santiago de Chile), B.A. Wickström, (Berlin).

Organizing Committee

Sira Allende (Chair, Havana), M.L. Bager (Havana), G. Bouza (Havana), M. Cortés (Cienfuegos), M. Cottrell (Paris 1), D. Covarrubias (Chilpancingo), J. Guddat (Berlin), A. Griewank, (Berlin), A. Kakes (Havana), M. Lassonde (Pointe a Pitre), M. A. León (Pinar del Río), A. Marrero (Havana), M. Nicado (Santa Clara), M. Oltenau (Paris), J. Otero (Havana), L. Pedreira (La Coruña), L. Rodríguez-Marín (Madrid), M. Torres (Havana), B. Wickstroem (Berlin).

Deadlines

Deadline for abstracts: December 15, 2008

Information about acceptance of the papers: February 1, 2008

Contact

Prof. Dr. Jürgen Guddat, Humboldt-Universität zu Berlin, guddat@mathematik.hu-berlin.de

Prof. Dr. Sira Allende, Universidad de la Habana, sira@matcom.uh.cu

Prof. Dr. Marie Cottrell, Université Paris 1, marie.cottrell@univ-paris1.fr

2.2 Global Conference on Power Control and Optimization (PCO'2009), June 1–3, 2009, Bali, Indonesia

It is our great pleasure to announce the first event of the international conference on Power Control and Optimization (PCO'2009) organized by and Curtin University of Technology, Malaysia.

The vision of PCO-09 is to bring today's highly inspiring and precision innovative research and resource development for tomorrow's industry in power and control. It has the mission to highlight innovative research and development of academics and industrial experts in the area of power control and its optimization techniques, and to provide a forum to disseminate the results to all industrial sectors in power quality, automation, business, finance, economics and management. Also, to bring all necessary information of the most recent and relevant innovations in regard to the theories and practices in industrial engineering and management, where a constructive dialogues on theoretical concepts, practical ideas and results of the state of

the art will be developed.

The main objective of PCO-09 is to provide a platform for researchers, engineers, practitioners and academicians as well as industrial professionals to present their research results and development activities.

This conference, as part of discussing the results, ensures to provide opportunities for delegates to exchange new innovative ideas and application experiences face to face, and to provide a platform where possible entrepreneurs can think of new ventures, or generate research contacts and find global partners for future collaboration.

Topics of Interest

Scope of the conference is contemporary and original research and educational development in the area of electrical power engineering, control systems and methods of optimization. The scope of the conference includes, but not limited to the following topics:

– Power Generation, stations – Hybrid power system – Hydrogen fuel cell – Renewable energy system – Space harmonic and vector analysis – Finite element machine design – Speed drive systems – Micro-controller design – Variable structure control – Direct torque control – Smart controller and prototype machine – Actuators and mechatronics – Robotics and automation – Nano Physics – Micro and nano motors – NEMS and MEMS – Modeling and simulation – Simulator design – Software engineering – Soft Computing – Computational Intelligent – Hybrid Optimization – Global Optimization – Fuzzy Programming – Neuro-Fuzzy Systems – Artificial Neural Network – Artificial Immune System – GPS, MADS and VNS Techniques – Fuzzy and Rough set – Evolutionary Algorithms – Genetic Optimization – Particle Swarm Optimization – Ant Colony Optimization – Simulated Annealing – Tabu Search – Probabilistic Reasoning – Memetic Algorithms – Meta-Heuristic Techniques – Classical Optimization Approaches – Application of Optimization

Important Dates

Paper Submission: 01.02.09

Formal acceptance letter with peer review: 01/03/09

Camera Ready Paper: 15.04.09

Registration with full payment: 15.04.09

Conference commencement: 01.05.09

Registration:

Registration fee covers all three day sessions, program booklet, CD proceeding, lunches, tea breaks, and banquet dinner. The fee is unique and identical for all delegates. The full payment of Euro 200.00 per delegate must be paid before the deadline.

All correspondence should be addressed to the conference secretariat: Professor Dr. Nader Barsoum Email: icpco.20@gmail.com

Conference website: <http://www.engedu2.net/>

2.3 Call for Papers: Special issue on OR approaches dedicated to routing problems in the Internet

The internet has been the subject of an extremely rapid evolution both in terms of increasing traffic volumes and more advanced services, to be supplied at the lowest possible cost and with some degree of quality of service (QoS) satisfaction. This has also been made possible by the development of new technological platforms. An essential element of these trends is the necessity of developing more advanced routing mechanisms capable of guaranteeing, on the one hand, the required QoS levels and, on the other hand, some form of optimization of the available network resources.

The major objective of this special issue of ITOR is to gather state-of-art research papers putting in evidence the great OR potentialities in this field. Articles on theoretical, methodological and application aspects will be welcome and the deadline for submissions is 31 December 2008.

Topics for this special issue include (but are not limited to):

- QoS routing models/multi-constrained optimization path problems

- Multipath routing optimization models
- Multicriteria routing models
- New OR tools related to the internet routing challenges

Each paper will be peer-reviewed according to the editorial policy of ITOR (<http://www.blackwellpublishing.com>), published by the International Federation of Operational Research Societies - IFORS. Papers should be original, unpublished, and not currently under consideration for publication elsewhere. They should be prepared according to the instructions to authors that can be found at the journal homepage.

Authors are strongly encouraged to send their submissions in electronic form (preferably a PDF file). Submissions and other inquiries should be sent directly to any of the Guest Editors in charge of this issue: João Clímaco (jclimaco@inescc.pt) and José Craveirinha (jcrav@deeuc.uc.pt).

2.4 Call for Papers: GDN Journal, Special Issue on Multicriteria Analysis in GDSS/NSS

In our current globalised world decision making and negotiating are becoming increasingly important and complex. On the other hand, information and communication technologies, and the associated supplied services are in a permanent evolution and heavily (and positively) impacting decision and negotiation support. These trends motivate a pace of innovation, integrating new areas of information systems research with new models/methods leading to a fast evolution in Group Decision Support Systems (GDSS) and Negotiating Support Systems (NSS). Furthermore, the multidimensionality of the complex real world problems requires demands in many cases the integration of multicriteria models/methods within the GDSS/NSS paradigms. We should stress, moreover, that Multicriteria Analysis (MA) is, in itself, a diversified field of research, incorporating several streams, all of them relevant for Group Decision and Negotiation: Multiple Objective Mathematical Programming Methods, Multiattribute Utility and Value Theory, Outranking methods, Interactive Procedures, are an integral part of MA.

The main objective of this special issue of the Group Decision and Negotiation Journal (GDN) is to gather state-of art research putting in evidence the relevance of MA in GDSS/NSS. Articles referring to theoretical, methodological and applied aspects will be welcome. The deadline for submissions is 31 March 2009.

Each paper will be peer-reviewed according to the editorial policy of GDN (<http://www.springerlink.com/content/100270/>) published by the INFORMS-GDN section. Papers should be original, unpublished, and not currently under consideration for publication elsewhere. They should be prepared according to the instructions to authors that can be found in the journal homepage.

Authors are strongly encouraged to send their submissions in electronic form (preferably a PDF file).

Submissions and inquiries should be sent directly to any of the Guest Editors in charge of this issue: João Clímaco (jclimaco@fe.uc.pt) and David Rios Insua (david.rios@urjc.es).

3 Past Conferences, Workshops, and Other News

3.1 8th International Conference on Multiple Objective and Goal Programming MOPGP'08

“The MOPGP series went back home”

Francisco Ruiz, University of Málaga, Spain

Fourteen years after the MOPGP series was born in Portsmouth (UK), and after having celebrated conferences all around the world (Spain, Canada, Poland, Japan, Tunisia and France) the MOPGP'08 Conference has been held again in Portsmouth.

The conference took place at the Park Building, one of the most emblematic buildings of the University of Portsmouth. The local organizing committee was co-chaired by Dylan Jones and Mehrdad Tamiz. There were 59 delegates, coming from Belgium, Finland, France, Germany, Italy, Kuwait, Poland, Saudi Arabia, South Africa, Spain, Switzerland, United Kingdom, and United States. 40 communications were presented in parallel sessions, and the plenary talks were delivered by Joerg Fliege (University of Southampton), Eckart Zitzler (ETH Zurich) and Theodor J Stewart (University of Cape Town).

The social program included a visit to the Spinnaker Tower (170 metres high above the Harbour and the Solent) and the Conference Dinner aboard the HMS Warrior (a warship that served in the Royal Navy during the second half of the 19th century).

3.2 CORS Optimization Days 2008

Belaid Aouni, Laurentian University, Canada

The Canadian Operational Research Society/Optimization Days 2008 joint conference was held at Université Laval, Quebec City (Canada) on May 12–14. A cluster on Multi-Criteria Decision Aid (MCDA) was organized for this scientific event. Many valuable papers were presented during this well organized conference. The authors of the submitted papers to the MCDA cluster were from eight different countries: Algeria, Canada, Cuba, Italy, Morocco, Spain, Tunisia and United Arab Emirates. Those who have submitted papers are: Irène Abi-Zeid, Belaid Aouni, Enrique Ballesterro, Jonathan Barzilai, Fouad Ben Abdelaziz, Sarah Ben Amor, Ozan Cakir, Wade D. Cook, Abdelaziz Dammak, Amal Hassaine, Davide La Torre, Rene Abreu Ledon, Taicir Loukil, Jean-Marc Martel, Olfa Meddeb, Mouna Mezghani, Mar Arenas Parra, Blanca Pérez-Gladish, David Pla-Santamaria, Jasmin Tremblay and Hassane Yamnahakki.

A tutorial entitled “Decisions, Utility, and Games-re-building the foundations of OR” was given by Professor Jonathan Barzilai where he brought to light multiple fundamental flaws in utility theory (including Barzilai’s paradox which is an intrinsic contradiction), game theory (the characteristic function is ill-defined, the use of undefined sums, etc.), measurement theory (where the measurement models of elementary variables such as length and mass are incorrect), and decision theory. The source of these errors was explained and their correction outlined. The presentation (as well as publications, FAQs and inFAQs) is posted at www.scientificmetrics.com.

Professor Belaid Aouni, MCDA Cluster Chair

3.3 Workshop on Multi-Criteria Decision Making for Water Resources and Environment Management, August 13, Tabriz, Iran

Mahdi Zarghami, University of Tabriz, Iran

In the recent years it is necessary to consider the technical, environmental and social implications of water resources projects, in addition to the economic criteria to ensure sustainable decisions and favorable decision outcomes. Then MCDM techniques are introduced to solve these models in an interactive environment. The important advantages of such models for water resources and environmental management are:

- To cope with limited water, financial and human resources;

- To allow for multi criteria decision-making instead of single criterion decision-making;
- To avoid opportunity costs of delay in decision-making;
- To resolve conflict among stakeholders; and
- To simplify administration of the projects.



Audience & Professor Szidarovszky

Regarding the mentioned objectives, this workshop was hold in the Faculty of Civil Engineering at the University of Tabriz, Iran to enhance on the application of MCDM models in the important field of the water resources and environmental management. About 110 participants from the 20 main universities of Iran and also 10 organizations attended the workshop. Four speakers according to the schedule presented the new ideas in this field. The one hour speech of Professor Szidarovszky maybe downloaded from the last link of the following website: <http://workshop.wrm3rd.ir/gallery.htm>

As the website is written in Farsi language if you have problem to find the write place please contact the organizer.

Due to the high interest of the audience, the related workshops will be organized in the next years.



Participants of the workshop

For further information please write to the organizer of the workshop:
Mahdi Zarghami, PhD
Faculty of Civil Engineering, University of Tabriz, Tabriz 51664, Iran
zarghaami@gmail.com
Tel: +98 (914) 317 7721, Fax: +98 (411) 334 4287

3.4 Invitation to join the MCDM Group on LinkedIn

Tomas Eric Nordlander, SINTEF ICT, Norway

I am a member of the International Society on Multiple Criteria Decision Making and also a user of the network LinkedIn. I have started an MCDM group on LinkedIn and invite you to join it; it is voluntary and costs nothing.

The advantages of being in this network group, as I see it, are the following:

- The group is created to make the International Society on Multiple Criteria Decision Making visible on the LinkedIn network where you have over 1.2 million professional members.
- The groups will only include people that are members of the MCDM Society
- Joining will allow you to find and contact other members on LinkedIn, but also to know a little bit about their professional background and network.

Here's the link to join:

<http://www.linkedin.com/e/gis/88454/21EB8B03056D>

If you have any questions or reservations, do not hesitate to contact me (Tomas.Nordlander@sintef.no).

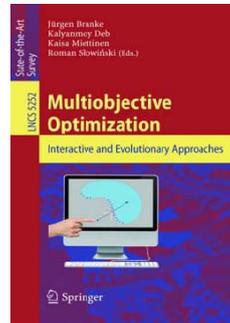
Hope to see you in the group,

Tomas

4 New Books

4.1 Multiobjective Optimization: Interactive and Evolutionary Approaches

Kaisa Miettinen, University of Jyväskylä, Finland



Multiobjective Optimization: Interactive and Evolutionary Approaches by Branke, J.; Deb, K.; Miettinen, K.; Slowinski, R. (Editors). Volume 5252 of the series *Lecture Notes In Computer Science*, Springer-Verlag, ISBN: 978-3-540-88907-6.

Multiobjective optimization deals with solving problems having not only one, but multiple, often conflicting, criteria. Such problems can arise in practically every field of science, engineering and business, and the need for efficient and reliable solution methods is increasing. The task is challenging due to the fact that, instead of a single optimal solution, multiobjective optimization results in a number of solutions with different trade-offs among criteria, also known as Pareto optimal or efficient solutions. Hence, a decision maker is needed to provide additional preference information and to identify the most satisfactory solution. Depending on the paradigm used, such information may be introduced before, during, or after the optimization process. Clearly, research and application in multiobjective optimization involve expertise in optimization as well as in decision support.

This state-of-the-art survey originates from the International Seminar on Practical Approaches to Multi-objective Optimization, held in Dagstuhl Castle, Germany, in December 2006, which brought together leading experts from various contemporary multiobjective optimization fields, including evolutionary multi-objective optimization (EMO), multiple criteria decision making (MCDM) and multiple criteria decision aiding (MCDA).

This book gives a unique and detailed account of the current status of research and applications in the field of multiobjective optimization. It contains 16 chapters grouped in the following 5 thematic sections: Basics on Multiobjective Optimization; Recent Interactive and Preference-Based Approaches; Visualization of Solutions; Modelling, Implementation and Applications; and Quality Assessment, Learning, and Future Challenges.

More information: <http://www.springeronline.com/978-3-540-88907-6>

Online version: <http://www.springerlink.com/content/978-3-540-88907-6/>

5 Sources of Information

- Homepage of the International Society on Multiple Criteria Decision Making. Website: <http://www.mcdmsociety.org>
- Kaisa Miettinen's website has several interesting links with Operational Research and Multi-Criteria websites (scientific societies, journals, conferences, etc.). Website: <http://www.mit.jyu.fi/miettine/lista.html>
- The website of the EURO Working Group on Multicriteria Decision Aiding has lots of useful information on multi-criteria. Website: <http://www.inescc.pt/~ewgmcda/index.html>
- Vincent Mousseau's database of research publications on MCDA has more than 2400 records, and it is a good source of information. Website: <http://www.lamsade.dauphine.fr/mcda/biblio/>
- Carlos A. Coello Coello maintains the EMOO web page, an archive of publications, software and other material related to multi objective optimization. Website: <http://www.lania.mx/~ccoello/EMOO/>

Imprint

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The newsletter of the International Society on Multiple Criteria Decision Making is published three times a year (March, July, November). Contributions can be sent at any time to the editor (please see the address provided above).