

# International Society on Multiple Criteria Decision Making



E-News • 2019 • Issue 1 (January)



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## Letter from the President

Dear Members of the International Society on MCDM,

I hope 2018 has been a good year for you and I hope 2019 will be a great year as well! I wish you all a Happy New Year!

I am delighted that 2019 is an MCDM conference year. İlker Topçu and his colleagues are busy preparing for it. They have already announced four renowned plenary speakers and their talks.



Many of you have been to our conferences in the past and know the high quality of the technical programs and how much fun the social programs are. Please share your experiences with those who have yet to experience this privilege. The first thing to do is to submit your abstract by January 30, 2019 either to an invited session or directly to a regular session. You can find the details about the conference in the call for papers that appears in this newsletter. You don't want to miss the MCDM conference and the opportunity to visit the fascinating city of Istanbul. I hope to see many of you there in June.

Along with the conference, there are many exciting activities. I would like to especially mention three awards. You will find calls for nominations and applications for these awards in this newsletter.

The deadline for nominations for the prestigious MCDM Society awards is January 31st. New awardees will join the distinguished scholars who have been recognized with these awards since 1992 for their outstanding contributions to MCDM.

The MCDM Doctoral Dissertation Competition was established in 2011 and four awards have been presented since then to young researchers who have done impressive work. We had the privilege of learning about the excellent work of all the finalists during the last four conferences. The deadline for applying for the next award is February 15th.

Applying MCDM in practice perhaps gives many of us the ultimate satisfaction. The Wiley prize recognizes the best paper applied to a practical problem among the applicants who wish to be considered for the prize. In addition to submitting an abstract to the conference, applicants should submit a full paper by January 28th.

All the awards will be presented at the conference, June 17-21, 2019.

Our MCDA/M Summer Schools have been recruiting many bright young researchers to our field over the years. We have increased the frequency of the summer schools to once every two years and the next one will be organized by Gülşah Karakaya and Banu Lokman in the summer of 2020



at Middle East Technical University in Ankara, Turkey. The tentative dates are July 6-20, 2020. As in the previous summer schools, the students will have the opportunity to interact with and attend the lectures of the most prominent scholars of many fields within MCDM during this two-week period. I urge advisors to motivate and support their students to attend, and past students of the summer schools to convey their experiences to potential students.

The executive committee is responsible for making important decisions of the society. There will be elections for several members of the committee as well as for the president-elect after the conference. Nominations will be made by an elections committee as well as by members of the society. The elections will be conducted electronically. Serving in one of these capacities is a great way of contributing to our field. If you intend to nominate members who you think will make a difference, please watch for the call for nominations that will be made through our discussion list and other means. I would like to invite all members to be actively involved in our society by any means they think are suitable. The more involved our members are, the more successful the field of MCDM will be.

The venue of the MCDM 2021 conference will be decided at the Istanbul conference in June. We are now soliciting proposals. Interested potential organizers should submit their proposals by May 15, 2019 according to the instructions given in the call for proposals in this newsletter.

Our sister organization, the INFORMS Section on MCDM, has launched a new award, the MCDM Junior Researcher Best Paper Award, and presented the first award last fall. I attended the session where the finalists presented their work. I was delighted to see how well the award achieved its goal. Congratulations to all finalists and kudos to the winner Gökhan Kırık for his well-deserved award. Congratulations to the INFORMS Section on MCDM as well for launching this award and administering it so well. You can find the details of the results and the call for nominations for the next award in this newsletter. I am delighted to see another award targeting young MCDM scholars in addition to our society's existing MCDM dissertation award.

There are many events that have strong MCDM presences. We list some of these, as well as calls for papers for special issues of journals and a list of MCDM publications, in this newsletter. I would like to particularly mention the meetings of two organizations here. We collaborate closely with the INFORMS Section on MCDM and the Euro Working Group (EWG) on MCDA. The INFORMS Section on MCDM organizes a rich MCDM stream in annual INFORMS meetings, having an MCDM session in every slot of the conference. EWG on MCDA has had two meetings per year for many years. There is information about the activities of these organizations in this newsletter.

As many of you know, my term as the president of the society will end after the conference in Istanbul. It has been a great privilege and honor to serve the society as its president. Although I will thank many of you in person at the conference in Istanbul for your involvement, I would like to take this opportunity to mention a few contributors in writing as well. Banu Lokman, as the

secretary, has done most of the heavy lifting during the past four years. I have regularly consulted Matthias Ehr Gott as the president-elect, who will take the responsibility of the president next. The executive committee members have been very responsive and helped make decisions quickly and efficiently. Various awards committees have been instrumental in recognizing contributions to MCDM. The organizers of our conferences and summer schools have done superb jobs to further our mission. Our newsletter team not only informs us about the developments in our area, but also produces important reference material for the future. I would like to thank them all for their collaborations during my term. We are in debt to Stanley Zions who initiated and was the leader of the MCDM group for many years and many other pioneers who worked with him to establish our great traditions.

I have been involved with our society for a long time in different capacities and it has been a wonderful journey. I will continue this journey after my term and I would like to thank all members for their collective efforts in making our society so unique.

Our newsletter editor Johannes Siebert and his editorial team have once again produced a rich newsletter for us. I appreciate not only the content of the newsletter but also their perseverance to publish it just in time twice a year during my four-year term and before.

*Murat Köksalan*

President of the International Society on MCDM  
 President (at) mcdmsociety.org  
 January 19, 2019  
 Ann Arbor, Michigan

Note: Please remember that you can reach the officers of the Society at the following addresses:

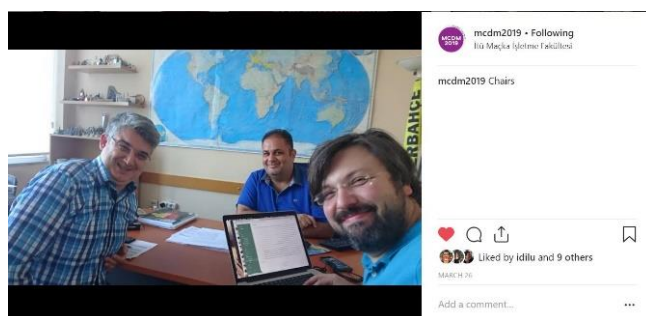
president (at) mcdmsociety.org  
 president-elect (at) mcdmsociety.org  
 secretary (at) mcdmsociety.org  
 mcdm-award (at) mcdmsociety.org  
 phdaward (at) mcdmsociety.org  
 newsletter (at) mcdmsociety.org

# 1 Society News

## 1.1 MCDM 2019 Istanbul Conference

The 25<sup>th</sup> International Conference on Multiple Criteria Decision Making (**MCDM 2019**) will take place at Istanbul Technical University, Istanbul, Turkey from June 16th to June 21st, 2019. Please bookmark the official web site of the conference: [www.MCDM2019.org](http://www.MCDM2019.org) to check it regularly for news, updates, and recent developments.

You may also follow the meeting on Twitter ([twitter.com/mcdm2019](https://twitter.com/mcdm2019)) and on Instagram ([www.instagram.com/mcdm2019](https://www.instagram.com/mcdm2019))



The main theme of the conference will be “**MCDM Beyond the Information Age**”.

The abstract submission **MCDM 2019** system is open and can be found via the web site.

The deadline for submissions is **January 30,**

**2019.**

**MCDM 2019** will last for five days including a half-day outing (on Wednesday afternoon and evening) and a banquet dinner (on Thursday night). There may also be a get-together event before the actual conference (Sunday evening).

The following sessions will be part of the program:

- Invited Plenary Talks
- The Award Talks of the MCDM Society award winners
- The Wiley Practice Prize session of the award finalists
- The MCDM Doctoral Dissertation Award session of the award finalists
- Invited sessions on special topics/interests and Contributed Sessions
- Opening and Closing Ceremony

There will be plenary speeches from four distinguished speakers:

- Pinar Keskinocak (Georgia Tech, College of Engineering)
- Kathrin Klamroth (University of Wuppertal, School of Mathematics and Natural Sciences)

- Tuomas Sandholm (Carnegie Mellon University, Computer Science Department)
- Luis Vargas (University of Pittsburgh, KATZ Business School)

The “Outing on Wednesday” will be at Sakip Sabancı Museum. Sabancı University's Sakıp Sabancı Museum is located in Emirgan, at one of Istanbul's oldest settlements on the Bosphorus.

You are all most welcome to **MCDM 2019**, the 25<sup>th</sup> organization of MCDM conferences...



*İstanbul’da görüşmek üzere! (See you in Istanbul!)*

Sincerely,

*Y. İlker Topcu*

Professor, Istanbul Technical University  
MCDM 2019 Conference Chair



## 1.2 Call for Proposals to Organize the MCDM 2021 Conference



### International Society on Multiple Criteria Decision Making

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The International Conference on Multiple Criteria Decision Making (MCDM), organized every two years, is one of the main events of the International Society on MCDM (<http://www.mcdmsociety.org>). We are now welcoming proposals to organize the 26<sup>th</sup> International Conference on Multiple Criteria Decision Making in 2021.

The society values its traditions highly and makes sure to maintain them through its activities, especially the conferences. It is important that the proposals to organize the next conference include plans to follow the traditions of the society. These traditions are explained at:

<http://www.mcdmsociety.org/content/traditions-international-society-mcdm-related-its-conferences>

According to the bylaws of the society, the international conference chairperson shall be responsible for all the conference arrangements and for information dissemination as directed by the executive committee. He/she shall be an *ex officio* member of the executive committee.

The proposal should contain at least the following information:

1. Name of conference chairperson with address, e-mail, telephone number, and names of other main organizers, if already known (e.g., chair of program committee).
2. Venue and host institution of the conference.
3. Support from host institution and from other organizations (if available, financial or other, please specify details).
4. Possible available assistance (estimate of the number of staff members and students to be involved in the local organization).
5. Registration fee (including lunches, coffee breaks, outing, banquet, abstract book, etc.) - regular and student fees (as reliable an estimate as possible). Indicate also the maximum registration fee which will not be exceeded.
6. Program outline.
7. Tentative possible dates and the theme of the conference.



- 8.** Information about transportation to the conference venue (e.g., from main airports).
- 9.** Accommodation alternatives (including low cost alternatives for students), their approximate prices, and proximities to the conference venue.
- 10.** Capacities of the main auditorium and other rooms for parallel sessions (including the number of such rooms available).
- 11.** Information regarding whether the organizers intend to organize special sessions (e.g., to build bridges between fields related to MCDM).
- 12.** Information on if and why there are potential difficulties in following some of the traditions of the society.
- 13.** Attractions of the location/venue.
- 14.** Any past experience in organizing international conferences and finding sponsors (in the proposed venue or elsewhere). Provide information on events, sponsors, dates, etc.

The executive committee of the society will decide on the venue at its meeting in Istanbul during the 25<sup>th</sup> International Conference on Multiple Criteria Decision Making (MCDM 2019) in June 2019. The organizer or a representative is expected to present the proposal at the meeting of the executive committee and answer questions raised by the committee. In case there are more than one promising proposals to organize MCDM 2021, it is possible to determine the hosts of the next two conferences in the same meeting. Please mention in your proposal whether you are interested in organizing MCDM 2023 if you are not selected to organize MCDM 2021.

Send your proposal by e-mail to the president of the society, Prof. Murat Köksalan, at [president@mcdmsociety.org](mailto:president@mcdmsociety.org) by May 15, 2019. Please direct any questions you may have by e-mail as well.

### *1.3 Call for Applications for the International MCDM Doctoral Dissertation Award 2019*

At the 25th International Conference on Multiple Criteria Decision Making (MCDM), the International Society on Multiple Criteria Decision Making will bestow the MCDM Doctoral Dissertation Award upon a scholar who has recently obtained a **doctoral degree** and demonstrated excellence in her or his doctoral dissertation research in Multiple Criteria Decision Making or a related field. The MCDM Doctoral Dissertation Competition identifies and recognizes outstanding doctoral dissertation research, completed on **January 1, 2017 or later**, in the development of theory, methodology, and/or the application of theory or methodology to MCDM.

The MCDM Doctoral Dissertation Award Committee will evaluate the applications, identify finalists, and choose the winner. The award will be announced at the 25th International Conference on Multiple Criteria Decision Making, Istanbul, Turkey, June 16 to June 21, 2019. Each finalist is required to give a talk at the conference. The finalists' conference fees will be waived.

**Deadline for applications:** Please email the zip file of the application packet to the awards committee at [phdaward@mcdmsociety.org](mailto:phdaward@mcdmsociety.org) by **February 15, 2019**. The finalists will be selected and all applicants will be informed about the results of their applications by April 1, 2019.

**Eligibility:** Those whose dissertations are in MCDM or a related field and who graduated with a doctoral degree on or after January 1, 2017. Only dissertations that are in English are eligible.

**Application (documents):** The application packet should include the following documents (all of which must be in English, except possibly the diploma):

1. Cover letter.
2. Applicant's CV, not exceeding 3 pages.
3. Scanned copy of the original diploma of the Doctoral Degree.
4. Electronic copy of the Doctoral Dissertation.
5. Extended Abstract of the Doctoral Dissertation in English, not exceeding four single-spaced pages.
6. Copies of publications/patents based on the Doctoral Dissertation, if any. Manuscripts accepted for publication in journals that are accompanied with the Editors' acceptance letter can also be submitted. These publications should be accompanied by a statement from the supervisor confirming that they are extracted from the dissertation.
7. An endorsement letter from the supervisor(s), highlighting the significance of the dissertation.
8. (Optional) Additional supporting letters that the applicant wishes to attach.

*José Rui Figueira*

Chair of the International MCDM Doctoral Dissertation Committee

Email: [figueira@tecnico.ulisboa.pt](mailto:figueira@tecnico.ulisboa.pt)

#### *1.4 Call for Nominations: Awards of the International Society on Multiple Criteria Decision Making*

The international Society on Multiple Criteria Decision Making presents, at each of its international conferences, up to three awards to individuals in honor of their outstanding, long-lasting, and influential contributions to the field of MCDM. These awards are:

**The MCDM Gold Medal:** This is the highest honor that the International Society on Multiple Criteria Decision Making bestows upon a scholar who, over a distinguished career, has markedly contributed to the theory, methodology, practice and professional development of MCDM.

**The MCDM Edgeworth-Pareto Award:** This is the highest distinction that the International Society on Multiple Criteria Decision Making bestows upon a researcher or practitioner of MCDM who has demonstrated a high level of creativity in developing novel areas of application of MCDM and associated methodology, markedly influencing the form of MCDM practice.

**The Georg Cantor Award:** This is the highest form of recognition that the International Society on Multiple Criteria Decision Making bestows upon a researcher who has personified the spirit of independent inquiry in developing innovative ideas in the theory and methodology of MCDM, significantly expanding the tools available to MCDM practice.

The 25<sup>th</sup> International Conference takes place in Istanbul, Turkey, during June 16-21, 2019. Nominations are now sought for awards to be made at this conference. Nominations should be emailed not later than January 31<sup>st</sup>, 2019 to Jyrki Wallenius ([jyrki.wallenius@aalto.fi](mailto:jyrki.wallenius@aalto.fi)). Please note the following with respect to making nominations:

- No self-nominations will be accepted.
- The nomination must clearly state for which award the nomination is being made.
- Provide a short statement as to why the nominee is worthy of the award, indicating his/her contributions to the MCDM field.
- Provide a CV for the nominee or a link to it.

Note that a condition of the awards is that the awardee attends the conference in person to receive the award and to present a plenary talk. More information concerning the awards and past awardees may be found at the website <http://www.mcdmsociety.org/content/awards>.

The members of the award committee for 2019 are as follows:

Valerie Belton, University of Strathclyde  
 Kalyanmoy Deb, Michigan State University  
 Salvatore Greco, Catania University  
 Murat Köksalan, Middle East Technical University and University of Michigan, Ann Arbor  
 (President of the MCDM Society)

Wojtek Michalowski, University of Ottawa  
Theodor Stewart, University of Cape Town  
Ilker Topcu, Istanbul Technical University (Istanbul Conference Chair)  
Detlof Von Winterfeldt, University of Southern California  
Jyrki Wallenius, Aalto University (Chair)

The committee reserves the right to make its own nominations and/or not to make particular awards.

*Jyrki Wallenius*

(Chair)

### 1.5 Call for submissions for the 2019 Wiley Practice Prize in MCDA

John Wiley & Sons Limited, as publishers of the *Journal of Multi-Criteria Decision Analysis*, sponsor a prize for the best paper describing a real-life application of multiple criteria decision making presented at International Conferences on Multiple Criteria Decision Making. This prize is once more to be offered at the next conference in Istanbul, Turkey, 16-21 June 2019 (<http://www.mcdm2019.org/>). The prize is US \$1000, while the winning paper and approved finalist papers will be published in the journal.

To be **eligible for the prize**, a paper should describe a real-world application, or series of applications, of MCDA in which there is clear interaction between the authors and decision makers or other significant stakeholders. Papers simply proposing alternative approaches to problems taken from the literature will not be considered for the prize.

Conference delegates wishing to have their papers considered for the prize should submit a full paper, preferably in PDF form with figures and tables integrated into the text, to Theodor Stewart (Editor in Chief of the journal) at [theodor.stewart@uct.ac.za](mailto:theodor.stewart@uct.ac.za), accompanied by a brief statement explaining the background of the application and the practical impacts of the study.

This submission implies that the paper has not been submitted for publication to any journal.

The following key dates will apply to the process:

- Initial submission of papers for the prize should be received by the editor **not later than 31 December 2018 now extended to 28 January 2019**. Authors are also required to submit abstracts of these papers to the conference by the deadline specified on the website above.
- A committee will perform a preliminary screening of submissions to select up to four provisional finalists. The decisions will be conveyed to authors by 14 February 2019 **(extended to 21 February)**.
- The provisional finalists will at this point be required **within two weeks** to upload their papers formally on to the JMCDA on-line submission system. (Instructions will be given at that time). The papers will then be subject to a full review according to the standard procedures of the journal.
- Based on the full reviews of the papers received by the journal, the finalists will be confirmed by 30 April, and their papers scheduled into a special session at the conference.
- The final decision of the practice prize jury (taking into account reviews of the written papers as well as the oral presentation) will be announced at the conference banquet, on 20 June 2019.

The prize winning paper is ensured publication in the journal, although minor revisions may still be requested. Decisions on the others will be subject to reviewers' comments, and may require revisions as a condition for publication. The intention is to group all of these papers into a single issue of the journal if at all possible.



## 2 Upcoming Events and Call for Papers

### 2.1 *Call for Nominations: INFORMS MCDM Section Junior Researcher Best Paper Award*

The MCDM Section of INFORMS is pleased to invite nominations for its **2019 MCDM Junior Researcher Best Paper Award**. The goal of the award is to recognize outstanding papers in the field of multicriteria decision making written by a junior researcher or a team of junior researchers.

A candidate or a team of candidates eligible for the Award must satisfy the following conditions:

1. A candidate must be the single author or the leading coauthor of an article. A team of candidates must consist of the leading coauthors of an article.
2. The article must be written in the English language and published electronically in a peer-reviewed journal within the period between the 1<sup>st</sup> of January 2016 and the 1<sup>st</sup> of January 2019.
3. All candidates must be within seven years of their Ph.D. graduation by the 1<sup>st</sup> of January 2019.
4. All candidates must be members of the MCDM Section of INFORMS.

The nominations for the award shall be submitted by email to Margaret Wiecek [wmalgor@clemson.edu](mailto:wmalgor@clemson.edu) by the 1<sup>st</sup> of February 2019. For more information about the nomination package and the selection processes, please visit [connect.informs.org/multiple-criteria-decision-making/...](http://connect.informs.org/multiple-criteria-decision-making/...)

Finalists will present their work in an MCDM Award Session at the 2019 INFORMS Annual Meeting in Seattle and the winner will be announced during the Section's business meeting. The award is accompanied by a \$500 honorarium for the first prize and an honorable mention for the second and third prize.

*Serpil Sayın*

President

INFORMS MCDM Section

## 2.2 *Euro Journal on Decision Processes: Call for Featured Papers on Environmental Decisions*



### Guest Editors

- **Judit Lienert**, Eawag: Swiss Federal Institute of Aquatic Science and Technology, Switzerland
- **Igor Linkov**, ERDC: U.S. Army Engineer Research and Development Center, USA

### Motivation

Environmental decisions can strongly impact nature, individuals, and society. Our society is urgently asked to find solutions for the sustainable use of resources and to carefully consider the long-term consequences of its actions, but these environmental policy decisions are difficult to make. Environmental systems can be ill-defined, may concern a range of stakeholders with opposed interests, and operate at different time scales. The multiple impacts of environmental decisions may be difficult to quantify and may result in significant societal burdens. Moreover, most environmental decisions are characterized by high uncertainty.

Methods from different fields are well suited to aid individual decision-makers as well as communities. These fields are diverse and include decision, risk, and policy analysis, operational research, economics, psychology, and the natural and engineering sciences. However, applying a single disciplinary perspective is clearly insufficient, and thus interdisciplinary approaches and multiple tiers of analysis are required.

The goal of this Feature Issue is to collect a wide range of papers that focus on the *process* of environmental decision-making. We are soliciting papers that show how to include different perspectives, stakeholders, and the public in the entire decision-making process. This ranges from framing the problem, eliciting preferences, spatial aspects of environmental decisions, and system modeling to communicating and implementing strategy. Insights into behavioral phenomena and biases, dealing with uncertainty, modeler-stakeholder interactions, or communication are welcome, particularly if they take a system perspective.

### Contents

We are inviting state-of the art original research and review papers on environmental decision processes. We are highly interested in empirical and theoretical research that increases our understanding of the effectiveness of selected interventions under high uncertainty in their predicted performance, as well as variability of judgment and values across stakeholder groups. This includes theoretical and applied work on new methods that draw on different disciplines. We are especially open to inter- and trans-disciplinary research. We also welcome original empirical research that focuses on application of *decision processes* in solving real problems. This Feature

may cover various fields (e.g., climate change, resource management, biodiversity, conservation), and applications in various sectors (e.g., energy, waste, forests, or water).

## Schedule

Prospective authors are invited to contact the guest editors with an extended abstract of a proposed paper via e-mail ([judit.lienert@eawag.ch](mailto:judit.lienert@eawag.ch); [igor.Linkov@usace.army.mil](mailto:igor.Linkov@usace.army.mil)) before submitting the full paper. Submission of full papers is via the EJDP electronic submission system (<https://www.editorialmanager.com/ejdp>, selecting article type SI: Environmental Decisions)

- December 15, 2018: 1-page extended abstracts (optional, but highly welcome)
- **February 28, 2019: Submission of full papers**
- May 31, 2019: Notification (1<sup>st</sup> round)
- June 30, 2019: Revision due
- Autumn / Winter 2019: Publication of Feature Issue

Papers will be published online after acceptance and proof-reading.

## 2.3 *Advances in Decision Analysis*

Dear Colleagues,

The deadline for submission to the [Advances in Decision Analysis](#) conference was January 10, 2019. Do not miss this exciting event! If you've had trouble submitting an abstract and wish to submit one by January 31, 2019, please contact the conference organizers by writing to [ada19@unibocconi.it](mailto:ada19@unibocconi.it).

Book your hotels as soon as possible, as hotels in Italy in June fill up quickly! For a list of hotels in the Bocconi vicinity, see details on the conference website: [connect.informs.org/das/conferences#ADA2019](http://connect.informs.org/das/conferences#ADA2019)

The program is going to be rich, with three world renowned keynote speakers: Massimo Marinacci, Cynthia Rudin, and Robin S. Wilson, and several other initiatives, such as the PhD Incubator and dedicated roundtables.

We hope you will join us at ADA 2019 to enjoy the research talks and take in the sights of the wonderful city of Milan!

The organizing committee: Emanuele Borgonovo, John Butler, Yael Grushka-Cockayne, Karen Jenni, Melissa Kenney, Jason Merrick, and Jay Simon

### **Key Dates**

- Deadline for abstract submissions: January 10, 2019  
If you've had trouble submitting an abstract and wish to submit one by January 31, 2019, please contact the conference organizers by writing to [ada19@unibocconi.it](mailto:ada19@unibocconi.it).
- Abstract acceptance: January 30, 2019
- Final date for abstract changes: May 1, 2019
- Early registration deadline & refund deadline: May 19, 2019

### **Preliminary Program**

The conference will start on Wednesday June 19th 2019 with a full day program (morning and afternoon), will continue on Thursday June 20th (morning and afternoon) and will close at 13.00 of June 21st 2019. A conference dinner will be held on June 20th 2019.

*Emanuele Borgonovo*

Director Bachelor in Economics, Management and Computer Science  
Bocconi University, Milano

## 2.4 *The 19<sup>th</sup> International Conference on Group Decision and Negotiation in 2019 a Joint GDN-EWG/BOR meeting*

The “19<sup>th</sup> International Conference on Group Decision and Negotiation in 2019 a Joint GDN-EWG/BOR meeting” will take place in Loughborough, UK, from June 11 to 15, 2019.

This joint meeting of INFORMS/GDN Section and EURO Working Group Behavioral OR will bring together two connected, but still distinct communities, will take place in Loughborough, at the heart of England, in the northernmost part of the county of Leicestershire and being centrally placed, well served by road, rail, and air.

This conference provides a forum for those working in the field, bringing together researchers from Africa, the Americas, Asia, Europe, and Oceania.

GDN series of conferences have provided a stimulating environment for the dissemination of state-of-the-art knowledge in the field of group decision and negotiation, allowing for intense discussions among participants and the exchange of ideas and critical comments for further improvement.

There will be a dedicated student track offering pre-doctoral students an opportunity to present (preliminary) work and to receive valuable feedback.

Conference proceedings will be published in a volume of Springer Lecture Notes in Business Information Processing (LNBIP), as well as a local proceedings volume for authors who choose to retain copyrights to their papers. Selected papers will be considered for publication in the Springer journal *Group Decision and Negotiation*.

### **Important dates:**

- Deadline for Submission for Local Conference Proceedings (Abstracts, Extended Abstract and Full Papers): February 1, 2019
- Deadline for Submission to the Doctoral Consortium: March 15, 2019
- Notification of Authors of abstracts and papers for Local Conference Proceedings: April, 2019

GDN 2019 topics will be organized in streams:

<b>Streams</b>	<b>Stream Organizers</b>
Behavioural OR	Raimo Hamalainen, Aalto University, Finland; Luis Alberto Franco, Loughborough University, UK
Conflict Resolution	Liping Fang, Ryerson University, Toronto, Canada; Keith W. Hipel, University of Waterloo, Waterloo, Canada; D. Marc Kilgour, Wilfrid Laurier University, Waterloo, Canada



Preference Modeling for Group Decision and Negotiation	Tomasz Wachowicz, Katowice School of Economics, Poland; Adiel Almeida, Federal University of Pernambuco, Brazil
Collaborative Decision Making Processes	Pascale Zaraté, Toulouse Capitole University, France
Emotion in Group Decision and Negotiation	Bilyana Martinovski, Stockholm University, Sweden
Crowdsourcing	Xusen Cheng, Univ. of Inter. Business and Economics, China; GJ de Vreede, Univ. of South Florida Sarasota-Manatee, USA
Risk Evaluation and Negotiation Strategies	Haiyan Xu and Shawei He, Nanjing University Of Aeronautics and Astronautics, China
Negotiation Support Systems and Studies (NS3)	Mareike Schoop, University of Hohenheim, Germany; Philipp Melzer, University of Hohenheim, Germany; Rudolf Vetschera, University of Vienna, Austria

### **Paper submission procedure:**

All submissions are handled through the [EasyChair](#) conference management system; to submit please follow the following steps:

1. Prepare your paper according to the instructions (<http://gdnconference.org/gdn2019/paper-submission/>) and save it as a pdf file.
2. Log in to [EasyChair](#) using your account (or create one if you do not have it);
3. Choose Author option when selecting GDN2019 conference in [EasyChair](#);
4. Select New Submission and choose
  - one of the specific conference streams relevant to your submission, or the GDN 2019 general stream called “General Topics in GDN” (The list of streams is given [here](#) and it will be displayed during the submission process), or
  - Doctoral Consortium

### **GDN 2019 Program Chairs**

Danielle Costa Morais, Federal University of Pernambuco, Brazil

Ashley Carreras, Loughborough University, UK

Adiel Teixeira de Almeida, Federal University of Pernambuco, Brazil

For more details, see the conference website at <http://gdnconference.org/gdn2019>  
[gdn2019@gdnconference.org](mailto:gdn2019@gdnconference.org)

## 2.5 Meeting of the EURO Working Group on Multiple Criteria Decision Aiding 2019

We are pleased to cordially invite you to the 89th meeting of the EURO Working Group on Multiple Criteria Decision Aiding that will be held from Thursday 11th April to Saturday 13th April 2019. This meeting is organized by the University of Trento, Italy.

The main theme of this meeting will be "Pairwise comparisons (pros and cons)". All contributions dealing with multiple criteria decision aiding, and in particular those related to the theme of the meeting, are welcome.



Additional information as well as the registration form can be found on the website <https://event.unitn.it/ewg-mcda2019/>. The organizers can be contacted at the e-mail address [ewg-mcda2019@unitn.it](mailto:ewg-mcda2019@unitn.it).

The deadlines are as follows:

- Abstract submission: February 15, 2019
- Notification of acceptance to Authors: March 10, 2019
- Registration to the meeting: March 20, 2019

We are looking forward to seeing you in Trento.

*Michele Fedrizzi and Matteo Brunelli*

Department of Industrial Engineering, University of Trento

### 3 Past Conferences, Workshops, and other News

#### 3.1 *A Report on the Activities of the INFORMS MCDM Section during the 2018 Annual Meeting and a Call for Papers for the 2019 Annual Meeting*

With its strong base of academic and professional members and its prestigious journals, INFORMS is a major promoter of operations research and management science worldwide. The MCDM Section, having had its roots in the International Society on MCDM dating from 1979, was established in 2010. Since its inception, the Section has been having strong visibility at INFORMS annual meetings. The Annual Meeting which took place in Phoenix between November 4-7, 2018 was no exception.

There were 65 talks in 16 sessions in Phoenix. This was the highest number of talks organized under the Section's cluster since its inception. A wide spectrum of MCDM topics were covered under the MCDM cluster. In addition, Gilberto Montibeller delivered an INFORMS level tutorial on behavioral challenges in *Policy Analysis with Conflicting Objectives*. The video of Gilberto Montibeller's tutorial is available along with others in the series at <https://www.informs.org/Resource-Center/Video-Library/INFORMS-TutORials>.

The Section ran the MCDM Junior Researcher Best Paper Award for the first time in Phoenix. The goal of the Award is to recognize outstanding papers in the field of multicriteria decision making written by a junior researcher or a team of junior researchers. In this issue of the newsletter, you will find information on the finalists of the inaugural edition and a call for the 2019 edition of the Award in separate sections. I would like to encourage all young researchers to consider this exciting opportunity of showcasing their research work.

I would like to invite the members of the MCDM Society to join our INFORMS Section. If you are already a member, you may get involved in recruiting new members. A strong membership count contributes to visibility of MCDM within INFORMS. It is possible to become a community member without an INFORMS membership.

For more details on the activities of our Section, follow the "About Us" tab in the menu on our website <https://connect.informs.org/multiple-criteria-decision-making/home>. Business meeting minutes are listed here with the Section bylaws. In addition, you will find a link to the membership form under the "Membership" tab.

It is time to start planning for the 2019 Annual Meeting. We would like to maintain our strong presence in the next meeting which will take place in Seattle, Washington from Sunday October 20 to Wednesday October 23, 2019. I will serve as the MCDM Cluster Chair once again and will organize the MCDM stream for Seattle. The deadline for introducing session chairs into the system is March 11, 2019. Chairs will then have until May 1, 2019 to enter speaker information. Please contact me if you are interested in organizing a session or if you would like to hear more about

INFORMS meetings.

I wish all members of the MCDM Community a wonderful 2019.

*Serpil Sayin*

[ssayin@ku.edu.tr](mailto:ssayin@ku.edu.tr)

President

INFORMS MCDM Section

### 3.2 *The Inaugural Edition of the INFORMS MCDM Section Junior Researcher Best Paper Award*

The Inaugural 2018 MCDM Junior Researcher Best Paper Award was presented at the 2018 Annual INFORMS Meeting in Phoenix, AZ. The goal of the award is to recognize outstanding papers in the field of multicriteria decision making written by a junior researcher or a team of junior researchers.

The three finalists who presented their papers in the Awards Session on November 4, 2018, included:

**Valentina Ferretti**, The London School of Economics and Political Science, United Kingdom.

Article: Valentina Ferretti, "From stakeholders analysis to cognitive mapping and Multi-Attribute Value Theory: An integrated approach for policy support," *European Journal of Operational Research* 253 (2016) 524–541.

**Miłosz Kadziński**, The Poznan University of Technology, Poland.

Article: Kannan Govindan, Miłosz Kadziński, R. Sivakumar, "Application of a novel PROMETHEE-based method for construction of a group compromise ranking to prioritization of green suppliers in food supply chain," *Omega* 71 (2017) 129–145.

**Gökhan Kirlik**, University of Maryland Medical System, United States.

Article: Gökhan Kirlik, Serpil Sayın, "Bilevel programming for generating discrete representations in multiobjective optimization," *Mathematical Programming*, 169 (2018) 585–604.

The Award was presented to Gökhan Kirlik, while Valentina Ferretti and Miłosz Kadziński received an honorable mention.

Gökhan Kirlik is a Healthcare Data Scientist in the University of Maryland Medical System in Linthicum, MD. He earned a PhD degree in Industrial Engineering and Operations Management at Koç University in Turkey in 2014. Upon graduation, he joined the School of Medicine at University of Maryland as a postdoctoral researcher where he built algorithmic approaches for radiation therapy planning and worked on predictive analytics problems. He was a recipient of the IBM PhD fellowship award in 2013 and was a finalist in MCDM Society's Dissertation award in 2015.

On behalf of the MCDM Section,



*Adiel Teixeira de Almeida*, Federal University of Pernambuco, Brazil

*Alexander Engau*, Dalhousie University, Canada

*Esma Gel*, Arizona State University, United States

*Banu Lokman*, Middle East Technical University, Turkey

*Johannes Siebert*, University of Bayreuth, Germany

*Theodor Stewart*, University of Cape Town, South Africa and University of Manchester,  
United Kingdom

*Margaret Wiecek*, Clemson University, United States

## 4 New Books/Publications

This section presents a list of papers published from 2018. This list is by no means exhaustive. If you want your recent publications to appear in the next newsletter, please send an email with the complete citation of your work to [lucie.galand@dauphine.fr](mailto:lucie.galand@dauphine.fr).

### 4.1 Books, Books chapters, special issue

Y. Jin, K. Miettinen, H. Ishibuchi (Guest Editors), **Special Issue on Evolutionary Many-Objective Optimization**, *IEEE Transactions on Evolutionary Computation*, 22(1), 2018.

A. Khaira, R.K. Dwivedi, **A State of Art Critique Review of Role of Decision Making Techniques in NDT for Condition Monitoring**, In *Edited Book- Advanced Condition Monitoring and Fault Diagnosis of Electric Machines*, Editor: Dr. Muhammad Irfan, IGI-GLOBAL, 1:222-235, 2018.

A. Khaira, R.K. Dwivedi, **A State of Art Critique Review of Role of Optimization in NDTs for Effective Condition Monitoring**, In *Edited Book- Advanced Condition Monitoring and Fault Diagnosis of Electric Machines*, Editor: Dr. Muhammad Irfan, IGI-Global, 1:189-221, 2018.

N. Munier, E. Hontoria, F. Jimenez-Sáez, **Strategic Approach in Multi-Criteria Decision Making: A Practical Guide for Complex Scenarios**, *International Series in Operations Research & Management Science*, 275, 2019.

V. Ojalehto, K. Miettinen, **DESDEO: An Open Framework for Interactive Multiobjective Optimization**, in *Multiple Criteria Decision Making and Aiding: Cases on Models and Methods with Computer Implementations*, Ed. by S. Huber, M. J. Geiger, A. T. de Almeida, 67-94, 2019.

### 4.2 Papers in Collections

V. Ojalehto, K. Miettinen, **DESDEO: An Open Framework for Interactive Multiobjective Optimization**, in *Multiple Criteria Decision Making and Aiding: Cases on Models and Methods with Computer Implementations*, Ed. by S. Huber, M. J. Geiger, A. T. Almeida, to appear.

### 4.3 Journal papers

I. Basak, **Aggregation of group priorities in analytic hierarchy process when to aggregate and when not to**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):162-168, 2018.

Z. Bashir, T. Rashid, J. Wątróbski, W. Sałabun, A. Malik, **Hesitant probabilistic multiplicative preference relations in group decision making**, *Applied Sciences*, 8(3), 398, 2018.

K. Belahcène, C. Labreuche, N. Maudet, V. Mousseau, W. Ouerdane, **An efficient SAT formulation for learning multiple criteria non-compensatory sorting rules from examples**, *Computers & OR*, 97:58-71, 2018.

M.V. Bolgov, A.L. Buber, A.A. Komarovskii, A.V. Lotov, **Searching for Compromise Solution in the Planning and Managing of Releases into the Lower Pool of the Volgograd Hydropower System**, *Water Resources*, 45(5):819-826, 2018.

S. Breedveld, D. Craft, R. van Haveren, B. Heijmen, **Multi-criteria optimization and decision-making in radiotherapy**, *European Journal of Operational Research*, Invited Review, in press.

A. Ceruti, T. Fiorini, S. Boggi, L. Mischi, **Engineering optimization based on dynamic technique for order preference by similarity to ideal solution fitness: Application to unmanned aerial vehicle wing airfoil geometry definition**, *Journal of Multi-Criteria Decision Analysis*, 25(3-4):88-100, 2018.

T. Chugh, Y. Jin, K. Miettinen, J. Hakanen, K. Sindhya, **A Surrogate-Assisted Reference Vector Guided Evolutionary Algorithm for Computationally Expensive Many-Objective Optimization**, *IEEE Transactions on Evolutionary Computation*, 22(1):129-142, 2018.

T. Chugh, K. Sindhya, J. Hakanen, K. Miettinen, **A Survey on Handling Computationally Expensive Multiobjective Optimization Problems with Evolutionary Algorithms**, *Soft Computing*, to appear.

E. Doolittle, H. Kerivin, M.M. Wiecek, **A robust multiobjective optimization problem with application to internet routing**, *Annals of Operations Research*, 271:487-525, 2018.

G. M. Dranichak, M. M. Wiecek, **On computing highly robust efficient solutions**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):177-188, 2018.

E. Eisenstadt, A. Moshaiov, **Decision-making in non-cooperative games with conflicting self-objectives**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):130-141, 2018.

K. Eyvindson, M. Hartikainen, K. Miettinen, A. Kangas, **Integrating Risk Management Tools for Regional Forest Planning: An Interactive Multiobjective Value at Risk Approach**, *Canadian Journal of Forest Research*, 48(7):766-773, 2018.

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- V. Ferretti, J. Liu, V. Mousseau, W. Ouerdane, **Reference-based ranking procedure for environmental decision making: Insights from an ex-post analysis**, *Environmental Modelling & Software*, 99:11-24, 2018.
- V. Ferretti, I. Pluchinotta, A. Tsoukiàs, **Studying the generation of alternatives in public policy making processes**, *European Journal of Operational Research*, 273:353-363, 2019.
- A. P. Guerreiro, C. M. Fonseca, **Computing and updating hypervolume contributions in up to four dimensions**, *IEEE Transactions on Evolutionary Computation*, 22(3):449-463, 2018.
- M. Hartikainen, K. Miettinen, K. Klamroth, **Interactive Nonconvex Pareto Navigator for Multiobjective Optimization**, *European Journal of Operational Research*, to appear.
- B. Heijmen, et al., **Fully automated, multi-criterial planning for Volumetric Modulated Arc Therapy - An international multi-center validation for prostate cancer**, *Radiotherapy and Oncology*, 128(2):343-348, 2018.
- M.K. Hołda, T. Stefura, M. Koziej, O. Skomarovska, K.A. Jasińska, W. Sałabun, W. Klimek-Piotrowska, **Alarming decline in recognition of anatomical structures amongst medical students and physicians**, *Annals of Anatomy-Anatomischer Anzeiger*, 221:48-56, 2019.
- Y. Jin, H. Wang, T. Chugh, D. Guo, K. Miettinen, **Data-Driven Evolutionary Optimization: An Overview and Case Studies**, *IEEE Transactions on Evolutionary Computation*, to appear.
- I. Kaliszewski, **Rankings revisited**, *Decyzje*, 30, 2018.
- I. Kaliszewski, J. Miroforidis, **On upper approximations of Pareto fronts**, *Journal of Global Optimization*, 72:475-490, 2018.
- M. Kashef, H. Safari, M. Maleki, V. Cruz-Machado, **Solving MCDM problems based on combination of PACMAN and LINMAP**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):169-176, 2018.
- O. Khaled, M. Minoux, V. Mousseau, S. Michel, X. Ceugniet, **A compact optimization model for the tail assignment problem**, *European Journal of Operational Research*, 264(2):548-557, 2018.
- O. Khaled, M. Minoux, V. Mousseau, S. Michel, X. Ceugniet, **A multi-criteria repair/recovery framework for the tail assignment problem in airlines**, *Journal of Air Transport Management*, 68:137-151, 2018.
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- A. Larsson, T. Fasth, M. Wrnhjelm, L. Ekenberg, M. Danielson, **Policy analysis on the fly with an online multicriteria cardinal ranking tool**, *Journal of Multi-Criteria Decision Analysis*, 25(3-4):55-66, 2018.
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- Y. Meinard, A. Tsoukiàs, **On the rationality of decision aiding processes**, *European Journal of Operational Research*, 273:1074-1084, in press, 2019.
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- U. Okoro, A. Kolios, **Multicriteria risk assessment framework for components' risk ranking: Case study of a complex oil and gas support structure**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):113-129, 2018.
- O.S. Ohunakin, B.O. Saracoglu, **A comparative study of selected multi-criteria decision-making methodologies for location selection of very large concentrated solar power plants in Nigeria**, *African Journal of Science, Technology, Innovation and Development*, 10(5):551-567, 2018.
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- M. Pesce, S. Terzi, R.I.M. Al-Jawasreh, C. Bommarito, L. Calgaro, S. Fogarin, E. Russo, A. Marcomini, I. Linkov, **Selecting sustainable alternatives for cruise ships in Venice using multi-criteria decision analysis**, *Science of The Total Environment*, 642:668-678, 2018.
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- W. Sałabun, A. Karczmarczyk, **Using the COMET Method in the Sustainable City Transport Problem: An Empirical Study of the Electric Powered Cars**, *Procedia computer science*, 126:2248-2260, 2018.
- S. Sekizaki, I. Nishizaki, T. Hayashida, **Distribution network management under electricity deregulation using evolutionary many-objective optimization**, *Journal of Multi-Criteria Decision Analysis*, 25(1-2):17–30, 2018.
- O. Sobrie, N. Gillis, V. Mousseau, M. PirLOT, **UTA-poly and UTA-splines: additive value functions with polynomial marginals**, *European Journal of Operational Research*, 264(2):405–418, 2018.
- S. Stoycheva, D. Marchese, C. Paul, S. Padoan, A.S. Juhmani, I. Linkov, **Multi-criteria decision analysis framework for sustainable manufacturing in automotive industry**, *Journal of Cleaner Production*, 187:257-272, 2018.
- M. Tabatabaei, M. Hartikainen, K. Sindhya, J. Hakanen, K. Miettinen, **An Interactive Surrogate-based Method for Computationally Expensive Multiobjective Optimization**, *Journal of the Operational Research Society*, to appear.
- M. Tabatabaei, A. Lovison, M. Tan, M. Hartikainen, K. Miettinen, **ANOVA-MOP: ANOVA Decomposition for Multiobjective Optimization**, *SIAM Journal on Optimization*, 28(4):3260-3289, 2018.
- W. Toth, H. Vacik, **A comprehensive uncertainty analysis of the analytic hierarchy process methodology applied in the context of environmental decision making**, *Journal of Multi-Criteria Decision Analysis*, 25(5-6):142-161, 2018.
- B.D. Trump, M Kadenic, I. Linkov, **A sustainable Arctic: Making hard decisions**, *Arctic, Antarctic, and Alpine Research, An interdisciplinary Journal*, 50(1), 2018.
- J. Y. T. Wang, M. Ehrgott, **A three-objective user equilibrium model: Time surplus maximisation under uncertainty**, *Journal of Multi-Criteria Decision Analysis*, 25(1-2):3-15, 2018.
- J. Wątróbski, J. Jankowski, P. Ziemba, A. Karczmarczyk, M. Ziolo, **Generalised framework for multi-criteria method selection**, *Omega*, in press.
- J. Wątróbski, E. Ziemba, A. Karczmarczyk, J. Jankowski, **An Index to Measure the Sustainable Information Society: The Polish Households Case**, *Sustainability*, 10(9), 3223.

L. Weerasena, M.M. Wiecek, **A Tolerance Function for the Multiobjective Set Covering Problem**, *Optimization Letters*, 1-19, 2018.

G. T. Wong, M. Manning, **Preferential strategies for mitigating the harms of adolescent illicit drug involvement: A multicriteria decision analysis**, *Journal of Multi-Criteria Decision Analysis*, 25(3-4):67-87, 2018.

Y. Zhou-Kangas, K. Miettinen, **Decision Making in Multiobjective Optimization Problems under Uncertainty: Balancing between Robustness and Quality**, *OR Spectrum*, to appear.

Y. Zhou-Kangas, K. Miettinen, K. Sindhya, **Solving Multiobjective Optimization Problems with Decision Uncertainty: An Interactive Approach**, *Journal of Business Economics*, to appear.

#### 4.4 Conference proceedings

C. Barba-Gonzalez, V. Ojalehto, J. Garcia-Nieto, A.J. Nebro, K. Miettinen, J.F. Aldana-Montes, **Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point based Interactive Methods**, In Proceedings of the *15th International Conference on Parallel Problem Solving from Nature, Proceedings, Part I*, 274-285, 2018.

K. Belahcene, O. Khaled, V. Mousseau, W. Ouerdane, A. Tlili, **A new efficient SAT formulation for learning NCS models: numerical results**, In Proceedings of the *4th workshop from multiple criteria Decision aid to Preference Learning (DA2PL)*, 2018.

K. Belahcène, C. Labreuche, N. Maudet, V. Mousseau, W. Ouerdane, Y. Chevaleyre, **Accountable approval sorting**, In Proceedings of the *27th International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.

K. Belahcene, V. Mousseau, W. Ouerdane, M. Pirlot, O. Sobrie, **Ranking with multiple points: Efficient elicitation and learning procedures**, In Proceedings of the *4th workshop from multiple criteria Decision aid to Preference Learning (DA2PL)*, 2018.

T. Chugh, R. Allmendinger, V. Ojalehto, K. Miettinen, **Surrogate-assisted Evolutionary Biobjective Optimization for Objectives with Non-uniform Latencies**, In *Proceedings of the Genetic and Evolutionary Computation Conference 2017 (GECCO)*, 609-616, 2018.

M. Ehrgott, G. Eichfelder, K.-H. Kufer, C. Lofi, K. Miettinen, L. Paquete, S. Ruzika, S. Sayin, R.E. Steuer, T.J. Stewart, M. Stiglmayr, D. Vanderpooten, **Personalization of Multicriteria Decision Support Systems**, in *Personalized Multiobjective Optimization: An Analytics Perspective*, Report from Dagstuhl Seminar 18031, 55-70, 2018.

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W. Sałabun, A. Karczmarczyk, J. Wątróbski, **Decision-Making using the Hesitant Fuzzy Sets COMET Method: An Empirical Study of the Electric City Buses Selection**, In Proceedings of the *IEEE Symposium Series on Computational Intelligence (SSCI)*, 1-8, 2018.

W. Sałabun, A. Karczmarczyk, J. Wątróbski, J. Jankowski, **Handling Data Uncertainty in Decision Making with COMET**, In Proceedings of the *IEEE Symposium Series on Computational Intelligence (SSCI)*, 1-7, 2018.

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Y. Zhou-Kangas, K. Miettinen, K. Sindhya, **Interactive Multiobjective Robust Optimization with NIMBUS**, In Proceedings of the *First International Workshop SimScience 2017*, 60-76, 2018.

## 5 Imprints

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We are working on publishing the newsletter of the International Society on Multiple Criteria Decision Making two times a year. Usually the deadline for the January issue is January 10<sup>th</sup> and the issue is intended to be published “around January 20<sup>th</sup>”. Usually the deadline for the September issue is August 20<sup>th</sup> and the issue is intended to be published “at the beginning of September”. Contributions can be sent at any time to the editor (please see the address provided above).