International Society on Multiple Criteria Decision Making

MCDM

E-News ● 2023 ● Issue 1 (January)

Contents

Front: Pixabay

Letter from the President

Dear Members of the International Society on MCDM,

First of all, let me wish all of you a happy new year 2023. I think we have good reasons to be optimistic as many countries have now declared the Covid pandemic to be an endemic disease. Here in the UK, there are no longer any rules or restrictions and everyone seems to have forgotten about social distancing quite quickly. Travel seems to have gone to almost pre-pandemic levels, even though more expensive due to other global problems.

Focusing on what's happening in the MCDM arena, I am happy to report that the first call for papers for the next conference can be found in this issue. The second main topic is that Wiley's Journal of Multi-Criteria Decision Analysis is under new leadership: At the end of 2022, Theo Stewart decided to step down from his editor-in-chief position. He has done a great job at the helm of the journal for the last 13 years. I'd like to take this opportunity to thank Theo for his leadership and dedication to the journal on behalf of the society. The new co-editors in chief are presented on page 6. Elsewhere in this newsletter you will find the report on new publications, which is interesting as always. Let's hope that we all meet soon again in person at conferences relevant to MCDM.

Matthias Ehrgott

President of the International Society on MCDM
12 January 2023

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 CfP: 27th International conference on Multiple Criteria Decision Making (MCDM 2024, Hammamet, Tunesia, June 2nd – June 7th 2024

The 27th International conference on Multiple Criteria Decision Making

(MCDM 2024)

Call for Papers and Session Proposals

The Tunisian Decision Aid Society organizes the international conference on Multiple Criteria Decision Making (MCDM 2024). The conference is an interdisciplinary forum for the presentation of recent developments and applications in the field of Decision Aid Sciences. This Conference aims to disseminate recent models and techniques related to Multiple Criteria Decision Making through researchers and practitioners from all over the world. There will be rigorous plenary talks by invited speakers as well as contributed talks. A Doctoral dissertation session for doctoral students at the early stage of their dissertation research will be organized during the conference, as well as a meet-the-editors session.

Submitted Extended Abstracts (at most 2 pages) should be written in English and submitted online via EDAS. They should clearly include: i) title, list of keywords, author(s) full name(s), affiliation(s), complete address(es), and e-mail address(es); ii) the name of the contact person who will attend the conference (in charge of the 15 minutes oral presentation). Selected extended-abstracts among those presented in the conference will be considered as potential full-paper publications, subject to peer reviews, in international academic journals.

Special Sessions supplement the regular program of MCDM 2024 and are intended to provide a sample of the state-of-the-art and highlight important research directions in a field of Multiple Criteria Decision Making. Each Special Session should be a focused effort rather than defined broadly and should include at least 5 accepted papers. The special session proposals should be submitted by email to Hatem Masri (hatem.masri@gmail.com) and should include: the title of the proposed special session, names and affiliations of the organizers (including brief bio and contact info), the session abstract (state the motivation and significance of the topic, and the rationale for the proposed session) and a list of invited papers (including a tentative title, author list and a 300-words abstract for each paper).

Important Dates:

Submission of session proposals: September 15, 2023.

Abstract submission: February 15, 2024.

Notification of acceptance: March 15, 2024.

Reduced Early registration fee for student participants is USD 350 and for academic is USD 500. Participants are responsible for their own hotel reservation and one registration may cover up to two (2) abstracts. Accompanying person could register to the conference for USD 350. Early registration deadline: **April 30, 2024**.

For any question concerning the organization of the Conference, you may contact the conference organization desk at the Tunis Business School, University of Tunis, Tel.: (+216) +216 98 335 934 and Email: meryem.masmoudi@gmail.com. For further information, please visit the conference website **https://mcdm2024.org/**

General Chair: Fouad Ben Abdelaziz, NEOMA Business School, France

Conference Co-Chairs: Ralph Steuer University of Georgia; USA, Hatem Masri University of Bahrain, Bahrain; José Rui Figueira University of Lisboa, Portugal

Organizing Committee Chair: Salah Ben Abdallah, Tunis Business School, Tunisia

Local Arrangements Chair: Rimeh El Fayedh, University of Carthage, Tunisia

Members of the Organizing Committee: Meriem Youssef, University of Sousse, Tunisia, Houda Alaya, University of Tunis Elmanar, Tunisia; Meryem Masmoudi, Applied Science University of Bahrain, Bahrain; Mirna Abu-Mjahed, AUB, Lebanon

Scientific Committee (to be completed): Matthias Ehrgott, Lancaster School of Management, UK; Davide La Torre, University of Milan, Italy; Blanca Pérez-Gladish, University of Oviedo, Spain; Constantin Zopounidis, Technical University of Crete, Greece; Mohamed Dia, Laurentian University, Canada; Sarah Ben Amor, University of Ottawa, Canada;

1.2 New Leadership of the Journal of Multi-Criteria Decision Analysis

On first of January 2023, Wiley appointed two new co-editors in chief of JMCDA.

Jafar Rezaei is an associate professor, head of the section Transport & Logistics, and a member of the management team of the department Engineering Systems and Services (ESS) at the faculty of Technology, Policy and Management at TU Delft, The Netherlands. His research interests include decision analysis and decision-making methodologies and their applications in different fields, including logistics, supply chain management, and health. He has developed several decision-making methods, including the best-worst method (BWM). He has received several awards from scientific journals. He is teaching courses on logistics and multi-criteria decision analysis. He is the editor-in-chief of the Journal of Supply Chain Management Science and is on the editorial board of several scientific journals, including IEEE Transactions on Engineering Management, and International Journal of Systems Science: Operations & Logistics. He has organized several international events in decision-making, including the EURO Working Group on MCDA in Delft in 2018. He has also delivered several keynotes on decision-making and supply chain management at some international conferences. He is interested in working on complex decision-making problems and is supervising a number of PhD candidates who are based on some NWO and EU projects in collaboration with major industry partners.

Matthias Ehrgott is Professor in the Department of Management Science at Lancaster University. He studied Mathematics, Economics and Computer Science at the University of Kaiserslautern in Germany where he obtained Masters (1992), PhD (1997) and Habilitation (2001) degrees. In 2000, he moved to the Department of Engineering Science at the University of Auckland, New Zealand, as a lecturer and became full Professor and Head of Department in 2011. Since 2013, he works at Lancaster University Management School. He served as Head of the Management Science Department from 2014-2017. Matthias' research interest is in multi-objective optimisation, which he applies in a variety of areas such as medicine, transportation, and manufacturing. He has published about 100 journal papers, book chapters and proceedings contributions on theory, methodology, and applications of multi-objective optimisation. In addition, he has authored and edited about 30 books, proceedings volumes and special issues of journals on the topic. The book "Multicriteria Optimization" (Springer, 2005) is a standard monograph in the field. In total, his work has been cited more than 20,000 times (Google Scholar). He has served on the editorial board of several journals including Management Science, Computers & OR and Journal of Global Optimization. Since 2002, he has been on the Executive Committee of the International Society on Multiple Criteria Decision Making, where he is president for the period 2019-2024. In 2011, he received the Edgeworth-Pareto award of that society. He organized the 19th International Conference on MCDM in 2008 and was on the programme committee of many other international conferences, including several MOPGP and MCDM meetings.

You can also see the change in editorship on the journal website at https://onlinelibrary.wiley.com/journal/10991360

Aims and Scope of the journal

The *Journal of Multi-Criteria Decision Analysis* (JMCDA) was launched in 1992, with an explanatory byline 'Optimization, Learning and Decision Support' added with a restructuring of the editorial board in 2009. From the outset, JMCDA aimed to be the repository of choice for papers covering all aspects of MCDA (Multicriteria decision analysis or aid) and MCDM (multicriteria decision making), while the explicit link to multiobjective optimization was emphasized in the amplified title. The journal provides an international forum for the presentation and discussion of all aspects of research, application and evaluation of multicriteria decision analysis, and publishes material from a variety of disciplines and all schools of thought.

- Papers addressing mathematical, theoretical, algorithmic and behavioural aspects of MCDA/MCDM are welcome, but should be well-motivated by explicit decision making contexts;
- Papers describing case studies or a series of real applications are particularly sought, but strong emphasis should be placed on problem structuring, interaction with decision makers and interpretation of results. Mere numerical examples of MCDA methods will not typically be sufficient.
- Surveys and authoritative reviews are also welcome, but should be more than bibliometric summaries. We look for novel interpretations and classifications to enhance MCDA theory and practice.

In order to facilitate the editorial process, nine topic areas within the general field of MCDA / MCDM / Multiobjective optimization have been defined, and Area Editors appointed for each. These areas currently are:

- *Analytic hierarchy / network processes (AHP/ANP)*
- *Evolutionary multiobjective optimization (EMO)*
- *Fuzzy set approaches to MCDA*
- *Innovative methodological developments in MCDA:*
- *Multiobjective optimization and goal programming:*
- *Outranking*.
- *Risk and uncertainty in MCDA:*
- *Rule-based methods and artificial intelligence:*
- *Value and utility models:*

The Editors and Publisher acknowledge the continued support of the International Society on Multiple Criteria Decision Making in helping to make the journal properly represent the importance of the field within the broader OR/MS context.

For more information please visit the journal website https://onlinelibrary.wiley.com/journal/10991360

Authors are encouraged to submit their manuscript using the Research Exchange (ReX) platform, which can be reached here: https://onlinelibrary.wiley.com/page/journal/10991360/homepage/forauthors.html?1

2 Upcoming Events and Call for Papers

2.1 Call for the "Bernard Roy Award 2023" of the EURO Working Group on Multiple Criteria Decision Aiding (Bernard Roy Award 2023 of EWG MCDA)

Policy

- The Bernard Roy Award of EWG MCDA (http://www.cs.put.poznan.pl/ewgmcda/) is a recognition conferred to a researcher under 40 years old for an outstanding contribution to the methodology and/or applications of Multiple Criteria Decision Aiding (MCDA).
- The award will be officially bestowed at the opening session of the 96th EWG MCDA meeting, September 2023, ESSCA School of Management, Paris Campus, France, if there is a suitable candidate. In this case, following a presentation of the competition by the chair of the Jury, the laureate will be invited to give a talk.

Award

The laureate then will receive the financial award (1000 EUR) and the diploma.

Eligibility

- The Bernard Roy Award of EWG MCDA shall be awarded for a body of work in MCDA, preferably published over the last decade. Although recent work will not be excluded, care shall be taken to allow the contribution to stand the test of time.
- The potential award recipient shall have a recognized stature in the MCDA community. Significance, innovation, depth, and scientific excellence shall be emphasized.

Nominations

- Candidates can be nominated by any three members of the EWG MCDA. Becoming a member is free (http://www.cs.put.poznan.pl/ewgmcda/index.php/members).
- A candidature for the Bernard Roy Award of EWG MCDA is composed of the nomination letter along with a recent and detailed CV, up to 5 best publications, as well as a self-description of the achievements up to 3 page long in a standard

- manuscript format. The nominations must be sent to the Jury chair by the due date of **June 30, 2023**.

Selection process

- Only one award may be assigned on each occasion.
- One person may receive the award at most once in her/his lifetime.
- The jury evaluates the nominees essentially on the basis of their scientific activities (papers in top journals, editorials, relevance of methodological proposals and/or applications, ...).

Jury

The jury for the current edition is composed of Professors Roman Słowiński (chair), Maria Franca Norese, Salvatore Greco, Constantin Zopounidis, and Nicolas Matsatsinis

Timing

- Deadline for nominations: **June 30, 2023.**
- The Jury chair informs the EWG coordinators who invite the laureate to the meeting: July 31, 2023.
- Preparation of the diploma by the EWG coordinators.
- Presentation of the laureate and her/his talk during the EWG MCDA 96th EWG MCDA meeting, September 2023, ESSCA School of Management, Paris Campus, France. An electronic copy of the laureate's presentation handed over to the EWG coordinators will be made available on the EWG on MCDA Web Site.
-

Applications should be sent to Professor Roman Słowiński at: roman.slowinski@cs.put.poznan.pl.

2.2   Special Issue on Recent advances and applications of multi-objective optimization

Guest Editors

Gülşah Karakaya (kgulsah@metu.edu.tr)

Department of Business Administration, Middle East Technical University, Ankara, Turkey

Banu Lokman (banu.lokman@port.ac.uk)

Portsmouth Business School, University of Portsmouth, Portsmouth, UK

Aim and Scope

In today's organizations, the decision makers (DMs) usually have to deal with multiple criteria that are conflicting with each other. Hence, multi-criteria decision making and optimization have been included in the fastest-growing subfields of operational research with their applications in diverse domains such as healthcare, sustainability, energy, logistics, and supply chain.

The aim of this special issue is to publish a collection of original research articles on recent advances and applications of multi-objective optimization for improved decision-making processes. Methodological developments and practical applications involving multi-objective modelling and optimization are welcome. High quality manuscripts developing new theory, algorithms, and real-life applications in the context of multi-objective optimization that address today's challenges in decision processes are especially encouraged to be submitted.

Although this Special Issue is planned on the occasion of the 26th International Conference on MCDM, it is not limited to the research that has been presented at the conference.

Schedule

Prospective authors are invited to submit full papers via the EJDP electronic submission system (https://www.editorialmanager.com/ejdecp) selecting article type *SI: Multi-obj Optimization*. The planned timeline is as follows:

1. Paper Submission Due: ~~November 15, 2022~~ **January 31, 2023**
2. Review Results of Round 1: March 15, 2023
3. Revised Manuscript Due (if applicable): May 15, 2023
4. Final Decision: July 15, 2023

*2.3   Kaiserslautern Applied and Industrial Mathematics
        Days – KLAIM*

First Announcement – Save the Date!

Dear Colleagues,

the second edition of the

Kaiserslautern Applied and Industrial Mathematics Days – KLAIM

will take place in Kaiserslautern, Germany, from September 25th-27th, 2023.

The purpose of this workshop is to provide a forum for applied mathematicians from academia, research labs and industry to exchange ideas and to showcase recent results. After the successful start of this new conference series in 2021, we continue next year with the second edition of KLAIM, putting emphasis on the *Synthesis of Models and Data.*

This thematic focus addresses in particular the combination of model-based approaches and data-driven techniques, leading thus to *hybrid learning frameworks.* The workshop is hosted jointly by the Fraunhofer-Institute for Industrial Mathematics and the Department of Mathematics at the TU Kaiserslautern. The program will be structured along the five tracks

1. Models and Data across Scales and Domains in Engineering Applications
2. Risk Management and Machine Learning
3. Simulation and Optimization in Fluid Dynamics
4. Mathematical Programming: Uncertain Data and Multiple Objectives
5. Analyzing Materials Structures: Images, Machine Learning and Stochastic Geometry

Keynote speakers so far include Peter Benner (MPI Magdeburg), Robert Bixby (Rice Univ.), Gitta Kutyniok (LMU München), Ivana Ljubic (ESSEC Paris), Matthias Scherer (TU München).

Registration and further details will be announced in April 2023. For questions write to us at: klaim@mathematik.uni-kl.de

We are looking forward to seeing you in Kaiserslautern.

On behalf of the local organizing committee

Anita Schöbel and Bernd Simeon

2.4 IFORS 2023 - 23rd IFORS Triennial Conference Santiago, Chile --- Announcement and Call for Abstracts

You are invited to take part in the 23rd IFORS Triennial Conference in Santiago, Chile, on July 10 - 14, 2023. All accepted and presented abstracts will be published online as a monograph with ISBN / DOI identifier numbers.

IFORS Triennial Conference will be an excellent opportunity for the OR community to get together again in an exciting city with plentiful travel and vacation opportunities nearby, and we are looking forward to seeing you in Santiago in July!

Plenaries:

- Margaret Brandeau, Stanford University, USA
- Juan Carlos Muñoz, Minister of Transportation of the Chilean Government and Pontificia Universidad Católica de Chile
- Paolo Toth, Università di Bologna, Italy
- Andrés Weintraub, University of Chile

Keynotes:

- Rene de Koster, Erasmus University, The Netherlands
- Brian Denton, University of Michigan, USA
- Andrea Lodi, Cornell Tech (USA) and the Technion (Israel)
- Anna Nagurney, University of Massachusetts Amherst, USA
- Tava Olsen, Melbourne Business School, Australia
- Dolores Romero Morales, Copenhagen Business School, Denmark

Tutorials:

- Carleton Coffrin, National Laboratory at Los Alamos (USA), Fred Glover, Entanglement, Inc. (USA), and Gary Kochenberger, Entanglement, Inc. (USA), *A Tutorial on Quantum Computing and Combinatorial Optimization*
- Nesim K. Erkip, Bilkent University, Turkey: *Inventory Problems with Heterogeneous Customers*
- Andres Gomez Escobar, University of Southern California, USA: *Machine Learning*
- Rosa G. González Ramírez, University of Los Andes (Chile) and Eduardo Lalla-Ruiz, University of Twente (The Netherlands): *Seaside Planning: Overview and Implementation* (2 sessions)
- Kate Smith-Miles, School of Mathematics and Statistics, University of Melbourne, Australia: *Stress-testing Algorithms via Instance Space Analysis*

Please visit the conference website https://ifors2023.com/ for more general information.

ABSTRACTS ARE NOW BEING ACCEPTED:

Researchers, academics, practitioners, and students in any branch of operational research, mathematical modelling, data analytics, or economic analysis are invited to submit abstracts or organize sessions. The list of clusters and cluster chairs is available in the submission system.

- No participant can present more than one paper at the conference.
- Abstract submission system is available online at:
- https://www.euro-online.org/conf/ifors2023/
- Abstracts must be written in English with a maximum of 2500 characters; submission deadline: **March 15, 2023**.

Researchers who wish to organize a session or contribute with an abstract within a cluster should contact one of the chairs of the corresponding cluster.

All accepted and presented abstracts will be published online as a monograph with ISBN / DOI identifier numbers.

IMPORTANT DATES:

Due date for abstract submissions: **March 15, 2023**

Registration system open: March 1st, 2023

Early registration deadline: April 25th, 2023

Author final registration deadline: May 10th, 2023

REGISTRATION FEES:

Early regular registration (until April 25th, 2023):   US$ 580

Late regular registration: US$ 680

Student early registration (until April 25th 2023):   US$ 170* (* Students must provide proof of enrollment)

Student late registration: US$ 210*

Accompanying Person: US$ 250

Further information on the registration fees will be available soon at the conference website: https://ifors2023.com/registration

We look forward to seeing you at Santiago in July 2023!

2.5   Sessions related to Multiple Criteria Decision Aiding during the 23rd IFORS Triennial Conference in Santiago, Chile, on July 10 - 14, 2023

You are invited to take part in the 23rd IFORS Triennial Conference in Santiago, Chile, on July 10 - 14, 2023. All accepted and presented abstracts will be published online as a monograph with ISBN / DOI identifier numbers.

IFORS Triennial Conference will be an excellent opportunity for the OR community to get together again in an exciting city with plentiful travel and vacation opportunities nearby, and we are looking forward to seeing you in Santiago in July!

Sessions related to Multiple Criteria Decision Aiding:
We have at least two clusters that can be interesting for presenting research in Multiple Criteria Decision Aiding:

- Multiple Criteria Decision Analysis (chair: Salvatore Greco, salgreco@unict.it)
- Multi-Objective Optimization: Theory, Algorithms, and Applicationschair: Hadi Charkhgard, hcharkhgard@usf.edu)

In the cluster "Multiple Criteria Decision Analysis" there are already the following sessions:

** New frontiers in Mutiple Criteria Decision Aiding Session chairs:
- Roman Slowinski (roman.slowinski@cs.put.poznan.pl)
- Jose Rui Figueira (figueira@tecnico.ulisboa.pt)
- Salvatore Greco (salgreco@unict.it)

**AHP/ANP and extensions
- Session chair: Birsen Karpak (bkarpak@ysu.edu)

**Evolutionary Multiobjective Optimization Session chairs:
- Ricardo Takahashi (taka@mat.ufmg.br)
- Elizabeth Wanner (efwanner@cefetmg.br)

**Methodological Improvements and Innovative Applications of Multiple Criteria Decision Analysis Session chairs:
- Caroline Mota (carolinemota@cdsid.org.br)
- Mischel Carmen N. Belderrain (carmen@ita.br)

** Foundation issues and paradigm shifts in Multiple Criteria Decision Aiding Session chair: Adel

Guitouni (adelg@uvic.ca)

In the cluster, Multi-Objective Optimization: Theory, Algorithms, and Applications, among others, there is the following session:

** Multiobjective Optimization Under Uncertainty Session chair: Margaret Wiecek (wmalgor@clemson.edu)

You can submit your abstract at the submission page https://www.euro-online.org/conf/ifors2023 using the code of the selected session that you can ask to the chairs of the sessions. Moreover, if you want to propose some new sessions, please, contact Salvatore Greco (salgreco@unict.it).

2.6   OMEGA - The International Journal of Management Science Special issue: Intelligent decision analysis based on online data

This special issue seeks to promote state-of-the-art research on the integration of digital and intelligent methods in decision analysis, with high practical relevance and methodically rigorous, leading to an exploration of several crucial research domains using different OR/MS methodologies.

Special issue information:
In the era of digital transformation, Internet users increasingly generate massive, high-dimensional, heterogeneous, and multi-source data through their online activities. Such data is being exploited to support decision-making, both at strategic and operational levels, by combining data analytics and machine learning tools with Operations Research/Management Science (OR/MS) models and techniques, such as preference modelling, preference learning, multi-criteria decision analysis, simulation, forecasting and optimization. This special issue seeks to promote state-of-the-art research on the integration of digital and intelligent methods in decision analysis, with high practical relevance and methodically rigorous, leading to an exploration of several crucial research domains using different OR/MS methodologies.

Keywords: online data; big data; user-generated content; machine learning; multiple criteria decision-making; preference modelling; preference learning; dynamic intelligent decision-making

Important dates:
Submission open date: 1 January 2023
Manuscript submission deadline: **30 June 2023**

Manuscript submission information:
Manuscripts should be submitted through the online system at:
https://www.editorialmanager.com/omega
Authors must select VSI: Intel. decis. online data when they reach the Article Type; step in the submission process.
Guide for Authors could be found on the Journal Homepage here:
https://www.elsevier.com/journals/omega/0305-0483/guide-for-authors
Learn more about the benefits of publishing in a special issue:
https://www.elsevier.com/authors/submit-your-paper/special-issues

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Huchang Liao, Sichuan University, Chengdu, China
Email: liaohuchang@scu.edu.cn

2.7 95th EWG on MCDA, April 13-15, 2023, Jaen, Spain

Dear Friends, dear EWG-MCDA Members,

It is our great pleasure to invite you to the 95th Meeting of the EURO Working Group on Multiple Criteria Decision Aiding (EWG-MCDA 95) that will be held in Jaen (Spain) on April 13-15, 2023. The Meeting is organized by the Intelligent Systems Based on Fuzzy Decision Analysis research group (SINBAD2) and the University of Jaen. It will be focused on the application of multiple criteria decision analysis techniques in the Circular Economy context.

All contributions dealing with MCDA, particularly those related to the theme of the meeting, are welcome. Additional information and the registration form are available at https://ewgmcda2023.ujaen.es/

Key dates and deadlines:
* Abstract submission deadline: **February 7, 2023**
* Notification of acceptance to authors: March 6, 2023
* Registration to the meeting deadline: March 30, 2023

We look forward to receiving all your proposals and meeting you in April 2023 in Jaen.

If you have any questions or concerns, please do not hesitate to contact us via email ewgmcda2023@ujaen.es

3   Obituaries - Professor Mordechai Henig 1944-2022

(by John Buchanan)

Mordechai, or "Moty" as he went by, was born in 1944 in Tel Aviv. He was the son of Jewish immigrants from Germany and Austria, Moty grew up in a religious home with two younger brothers. Moty was a very curious boy. He devoured books and magazines which probably planted the seeds for his career as an original thinker and academic. He studied in a prestigious Yeshiva (orthodox religious) high school, but during his military service gradually became more and more secular.

Moty studied statistics and economics at Tel Aviv University, and then went on to get a PhD in Operations Research at Yale University, from which came a long and successful career as a University Professor. His wife Gaby passed away in 2020 and is succeeded by his only son Erez, who is married with two young children.

I met Moty at a MCDM conference early in my academic career and although we were like chalk and cheese, we actually collaborated well and stimulated one another and became good friends. Moty was a great help in my academic career. He was always enthusiastic, interesting and sometimes challenging to talk with. He will be missed.

Some relevant publications.

Henig, M. I. (1983). Vector-valued dynamic programming. *SIAM Journal on Control and Optimization*, *21*(3), 490-499

Henig, M. I. (1986). The domination property in multicriteria optimization. *Journal of Mathematical Analysis and Applications*, *114*(1), 7-16.

Henig, M. I. (1986). The shortest path problem with two objective functions. *European Journal of Operational Research*, *25*(2), 281-291.

Henig, M. I., & Buchanan, J. T. (1996). Solving MCDM problems: Process concepts. *Journal of Multi-Criteria Decision Analysis*, *5*(1), 3-21.

Henig, M. I. (1990). Value functions, domination cones and proper efficiency in multicriteria optimization. *Mathematical programming*, *46*(1), 205-217.

Gerchak, Y., Gupta, D., & Henig, M. (1996). Reservation planning for elective surgery under uncertain demand for emergency surgery. *Management Science*, *42*(3), 321-334.

Henig, M. I., & Buchanan, J. T. (1997). Tradeoff directions in multiobjective optimization problems. *Mathematical Programming*, *78*(3), 357-374.

Buchanan, J. T., Henig, E. J., & Henig, M. I. (1998). Objectivity and subjectivity in the decision making process. *Annals of Operations Research*, *80*, 333-345.

Corner, J., Buchanan, J., & Henig, M. (2001). Dynamic decision problem structuring. *Journal of Multi-Criteria Decision Analysis*, *10*(3), 129-141.

4 Past Conferences, Workshops, and other News

4.1 ITQM 2022, IAITQM and MCDM

The Ninth International Conference on Information Technology and Quantitative Management (ITQM 2022) was held online in December 9-11, 2022, Beijing, China. The theme of ITQM 2022 is "Global Green Digital Economy: Challenges and Development". There were more than 750 scholars and students from 23 countries and regions submitted their papers to ITQM 2022. The authors are from Aruba, Australia, Brazil, Canada, Chile, China, Colombia, India, Iran, Italy, Macao (China), Malaysia, Mexico, Nigeria, Poland, Portugal, Romania, Russia, Serbia, Spain, Thailand, United Kingdom and United States. After peer-review process, ITQM 2022 has accepted 210 high-quality papers from all submitted papers for presentation at the conference. These papers are published by Elsevier in Procedia Computer Science series. This conference is allocated into 1 General Session, 8 Special Sessions and 13 Workshops. The conference has invited the 4 world leading keynote speakers to give their current and future visions about Information Technology and Quantitative Management:

• Ralph Keeney, Fuqua School of Business, Duke University, United States on "Value-Focused Thinking to Make Quality Decisions";
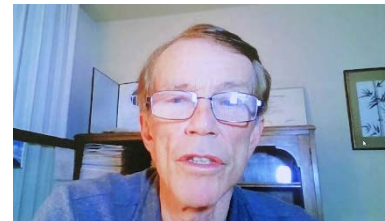
• Murat Köksalan, the past President of the International Society on MCDM, the professor of the Industrial Engineering Department, Middle East Technical University, Turkey and the Ross School of Business, University of Michigan, Ann Arbor, United States on "Unmanned Air Vehicle Routing Considering Multiple Objectives";

• Wei Huang, Deputy President of Northwestern Polytechnical University, China on "The Future Industry of Flexible Electronics - Deeply Rooted Technology, Leading Scientific and Technological Innovation";

• Weimin Zheng, Department of Computer Science and Technology, Tsinghua University, China on "Performance Evaluation for Leading-edge High-Performance Computers".

In addition, it has also invited a plenary speaker Bongsug (Kevin) Chae, Professor of Department of Management, Jon Wefald Chair in Business, Kansas State University, United States on "Business Analytics for Supply Chain: A Dynamic-Capabilities Framework".

ITQM 2022 (http://itqm-meeting.org/2022/index.html) is organized by International Academy of Information Technology and Quantitative Management (IAITQM), Chinese Academy of Sciences and University of Nebraska at Omaha. IAITQM was formally inaugurated on June 3, 2012 with more than 50 founding members from China, United States, Australia, Japan, Lithuania, Poland, Romania, Spain, Singapore, South Korea, The Netherlands, Turkey and other countries. Among them, Thomas L. Saaty, Po-lung Yu, Murat M. Koksalan, Edmundas K. Zavadskas, Luiz F. Autran M. Gomes, Jifa Gu, Yong Shi, Shouyang Wang, Gwo-Hshiung Tzeng, Shu Cherng Fang, Luis G. Vargas, Gang Kou, David Olson, Zhimin Huang and Zenonas Turskis are active members of MCDM society.

IAITQM (http://www.iaitqm.org/), is a global forum for exchanging research findings and case studies that bridge the latest information technology and quantitative management techniques. It explores how the use of information technology techniques to improve quantitative management and how the development of management tools can reshape the development of information technology. The First International Conference on Information Technology and Quantitative Management (ITQM 2013) took place in Suzhou, China. The Second International Conference on Information Technology and Quantitative Management (ITQM 2014) was held at Moscow, Russia. The Third International Conference on Information Technology and Quantitative Management (ITQM 2015) was held at Rio de Janeiro, Brazil. The Forth International Conference on Information Technology and Quantitative Management (ITQM 2016) was held at Asan, Korea. The Fifth International Conference on Information Technology and Quantitative Management (ITQM 2017) was held at New Delhi, India. The Sixth International Conference on Information Technology and Quantitative Management (ITQM 2018) was hosted at Omaha, USA. The Seventh International Conference on Information Technology and Quantitative Management (ITQM 2019) was held at Granada, Spain. The Eighth International Conference on Information Technology and Quantitative Management (ITQM 2020 & 2021) took place in Chengdu, China.

IAITQM society has established 5 annual research awards, namely Daniel Berg Award in Technology and Service Systems, Siwei Cheng Award in Quantitative Management, Richard Price Award in Data Science, Walter Scott Award in Information Technology, and Herbert Simon Award in Outstanding Research Contribution. For the last 9 years, our MCDM members obtained a number awards from IAITQM, including Ralph Keeney (Daniel Berg Award 2022), Murat Köksalan (Siwei Cheng Award 2022), Shu-Cherng Fang (Siwei Cheng Award 2019), Luiz F. Autran M. Gomes (Siwei Cheng Award 2018), Milan Zeleny (Siwei Cheng Award 2017), Po-Lung

Yu (Siwei Cheng Award 2015), Roman Słowiński (Richard Price Award 2021), Jifa Gu (Walter Scott Award 2016), Shouyang Wang (Walter Scott Award 2014), David L. Olson and Bongsug (Kevin) Chae (Herbert Simon Award 2022), Edmundas Kazimieras Zavadskas, Abbas Mardani, Zenonas Turskis, Ahmad Jusoh and Khalil MD Noris (Herbert Simon Award 2021), Carlos A. Bana e Costa, Jean-Claude Vansnick and Jean-Marie De Corte (Herbert Simon Award 2018), Yi Peng, Gang Kou, Yong Shi and Zhengxin Chen (Herbert Simon Award 2016), Thomas Saaty and Luis Vargas (Herbert Simon Award 2011).

IAITQM society welcomes the members of MCDM society to participate in its annual conference and publish the research papers at IAITQM journals: International Journal of Information Technology and Decision Making and Annals of Data Science.

(Yong Shi, the president of IAITQM and co-chair of the 20th International Conference on MCDM, June 21-26, 2009, Chengdu, China)

5 New Books/Publications

This section presents a list of books and papers recently published. It is collected by an automatic script by capturing the works from MCDM society members' Google scholar profiles after filtering with MCDM related keywords. 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 Google Scholar profile links or a complete citation of your works to he.huang@vub.be.

5.1 Books

Shih HS, Olson DL, **TOPSIS and its extensions: A distance-based MCDM approach**, *Springer Nature*, 2022.

5.2 Journal papers

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6   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 10th and the issue is intended to be published "around January 20th". Usually the deadline for the September issue is August 20th 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).