

International Society on Multiple Criteria Decision Making

E-News • 2026 • Issue 1 (January)



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Letter from the President

Dear Members of the International Society on Multi-Criteria Decision Making,

As we begin this new year, I would like to share with you some important upcoming activities of our Society and to extend my very best wishes to all our members.

I am pleased to recall the upcoming MCDM Conference (MCDM 2026) to be held in Wuppertal, which will provide an excellent opportunity for scientific exchange, discussion, and collaboration within our community. We look forward to welcoming researchers and practitioners from around the world to engage in high-quality contributions covering the broad spectrum of multi criteria decision making.



I would also like to draw your attention to the MCDM Summer School in Delft, which will take place from July 19 to August 1, 2026. This event is designed to offer students and early-career researchers a valuable learning experience, combining advanced lectures with close interaction with leading experts in the field. The Summer School represents an important investment in the future of our community.

On behalf of the Society, I warmly encourage your participation in these events and thank in advance all organizers, speakers, and instructors whose efforts will make them a success.

Finally, I would like to extend my best wishes for a happy, healthy, and successful New Year. May the coming year bring new ideas, fruitful collaborations, and continued progress for the field of multi-criteria decision making and for our Society.

With kind regards,

José Rui Figueira

President

International Society on MCDM

1 Society News

1.1 2026 EURO PhD Summer School on MCDA/MCDM

The 2026 EURO PhD Summer School on MCDA/MCDM will take place in Delft, the Netherlands, on July 19-August 1, 2026: <https://mcdmsummerschool.tudelft.nl/>.

PhD candidates interested in obtaining an in-depth understanding of the theoretical and applied aspects of MCDA/MCDM, interacting with leading scholars in the field, and conducting hands-on exercises and case studies are invited to apply. Although the priority is for PhD candidates, a limited number of Master's students and young researchers may also be admitted. A maximum of 50 candidates will be accepted.



The summer school will offer a rich academic program consisting of lectures on state-of-the-art MCDA/MCDM methods, their applications across diverse domains and supporting software tools. Beyond gaining theoretical insights, participants will engage in hands-on exercises and collaborative case studies, working in teams to analyze real-world decision problems.

Equally important, the summer school provides a unique forum for building professional networks and long-lasting collaborations. Participants will interact closely with leading experts and peers, both in structured academic sessions and in informal discussions. A vibrant social program will complement the scientific agenda, creating opportunities for cultural exchange, teamwork, and friendships that often extend well beyond the event itself. This combination of rigorous academic content and enriching social interaction has made the EURO PhD summer schools a highly valued tradition in the MCDA/MCDM community.

The summer school will be held at Delft University of Technology (TU Delft), one of Europe's leading technical universities, located in the historic city of Delft. TU Delft is renowned for its world-class research and education, and its beautiful campus offers an inspiring environment for study and collaboration. Delft itself is a picturesque Dutch city, famous for its canals, historic architecture, and vibrant cultural life.

Thanks to financial support from the Association of European Operational Research Societies (EURO) and the International Society on MCDM, registration fees will be kept at an affordable level. Partial support may be available for participants with limited funds, especially those from developing countries.

Important Dates

Application submission opening: October 1, 2025

Deadline for Application: **March 1, 2026**

Notification of Acceptance: March 15, 2026

Early registration deadline: April 15, 2026

Late registration deadline: May 15, 2026

Summer school: July 19-August 1, 2026

List of Lecturers (in Alphabetical Order) and Topics

1. **Matteo Brunelli**, University of Trento, Italy
AHP/ANP
2. **Marco Cinelli**, Leiden University, The Netherlands
Problem structuring in MCDA/MCDM
3. **Salvatore Corrente**, University of Catania, Italy
Composite Indicators
4. **Jose Rui Figueira**, Instituto Superior Técnico, University of Lisbon, Portugal
Outranking Methods
5. **Xavier Gandibleux**, University of Nantes, France
Modeling and Solving Multiobjective Optimization Problems
6. **Salvatore Greco**, University of Catania, Italy
MAUT, Preference Modelling, Robust Ordinal Regression
7. **Milosz Kadzinski**, Poznan University of Technology, Poland
MCDA/MCDM Method Selection
8. **Murat Koksalan**, Middle East Technical University, Turkey
Interactive Methods of Multiobjective Optimization with Behavioral Aspects
9. **Jafar Rezaei**, Delft University of Technology, The Netherlands
Best-Worst Method; "Meet the Editor of JMCDA"
10. **Serpil Sayin**, Koç University, Turkey
Multiobjective Discrete Optimization
11. **Roman Słowiński**, Poznan University of Technology, Poland
Decision Rule Approach to MCDA; "Meet the Editor of EJOR"
12. **Rudolf Vetschera**, University of Vienna, Austria
Collective Decision Making
13. **Constantin Zopounidis**, Technical University of Crete, Greece
Applications in Finance

Application

To apply, please send the following documents by e-mail [Subject: MCDA/M Summer School 2026] to Jafar Rezaei (j.rezaei@tudelft.nl):

- A motivation letter
- Curriculum Vitae (with photo)
- One recommendation letter from your scientific advisor. Participants applying for financial support should state this in their application, and the advisor should confirm the financial need.

A completed application form should also be submitted via the summer school website: <https://mcdmsummerschool.tudelft.nl/>.

Applicants will receive a confirmation of submission by e-mail. The **application deadline is March 1, 2026**. Notification of acceptance will be sent by March 15, 2026. Accepted participants will then receive detailed instructions regarding registration.

The finalized program and updated information will be announced in early 2026 on the summer school's website.

Organizer

Jafar Rezaei, Delft University of Technology

1.2 Call for Proposals: 28th International Conference on Multiple Criteria Decision Making 2026, University of Wuppertal, Germany

MCDM 2026 is the 28th edition of the biannual international conferences of the International Society on Multiple Criteria Decision Making. We look forward to welcoming you in Wuppertal from May 25-29, 2026. Under the theme “Better Decisions for a Better Tomorrow”, we put together an interesting conference program that covers the various aspects of MCDM, focusing on the social, ecological, and economical impact of MCDM.

For further information please visit the conference website:

<https://mcdm2026.uni-wuppertal.de>.

Abstract Submission

We warmly encourage researchers, academics, practitioners, and students in MCDM and related fields to submit their abstracts and contribute to this conference. Please submit the abstract of your presentation **by March 15** on <https://mcdm2026.uni-wuppertal.de/en/submission>.



Aims and Scope

- Advances in MCDM Theory
- AHP/ANP and extensions
- Bi- and Multilevel Optimization
- Computing and Software for MCDM
- Data Envelopment Analysis
- Decision Analysis
- Decision Support Systems
- Evolutionary Multi-objective Optimization
- Compromise Programming
- Goal Programming
- Group Decision Making
- Interactive Methods
- Multi-objective Combinatorial Optimization
- Multi-objective Continuous Optimization
- Multi-objective Robust Optimization
- Multi-objective Stochastic Programming
- Outranking Methods
- Practical Applications of MCDM
- Preference Modeling
- Problem Structuring
- Teaching MCDM

Important Dates

Abstract Submission Opens: December 15, 2025

Registration Opens: February 1, 2026

Abstract Submission Deadline: **March 15, 2026**

Acceptance Notification: March 20, 2026

Early-Bird Registration & Presenting Author Registration Deadline: March 31, 2026

28th MCDM Conference in Wuppertal: May 25-29, 2026



We look forward to seeing you in Wuppertal.

Best regards,

Kathrin Klamroth & Michael Stiglmayr

University of Wuppertal

Optimization Group

mcdm2026@uni-wuppertal.de



1.3 Call for Application: MCDM Doctoral Dissertation Award 2026

At the 28th International Conference on Multiple Criteria Decision Making, 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, 2024 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 28th International Conference on Multiple Criteria Decision Making. 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 by **February 28, 2026**. The finalists will be selected and all applicants will be informed about the results of their applications by April 1, 2026.

Eligibility: Those whose dissertations are in MCDM or a related field and who graduated with a doctoral degree on or after January 1, 2024. 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.

For more information, please text phdaward@mcdmsociety.org.

Best regards,

Salvatore Greco

Chair of PhD Award Committee

1.4 Call for Nominations: Awards of the International Society on MCDM 2026

At each of its conferences, the International Society on Multiple Criteria Decision Making presents up to three awards to recognize 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 28th International Conference on Multiple Criteria Decision Making will take place in Wuppertal, Germany, May 25-29, 2026. We would like to invite nominations for the awards to be presented at this conference. Please observe the rules below in making nominations.

- Self-nominations will not be considered.
- The nomination must clearly state for which award the nomination is being made. It is also possible to request the nominee to be considered for one of two or all three awards in case the contributions warrant it. In this case, the Committee will decide which of the suggested awards, if any, is the most suitable for the nominee.
- 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 of the nominee.

The awardee is expected to attend in person and deliver a plenary talk at the conference as a condition of receiving the award. More information concerning the awards and past awardees is available at <https://www.mcdmsociety.org/awards/>.

We encourage you to nominate worthy researchers for these prestigious awards. You may make nominations individually or together with several colleagues. Committee members may also make nominations.

Please email your nominations to Murat Köksalan (koksalan@umich.edu) no later than **January 31 February 15, 2026**. Make sure you receive an acknowledgement of the receipt of your nomination.

Murat Köksalan

Awards Committee Chairperson

1.5 Call for Proposals: Organization of the MCDM 2028 International Conference on Multiple Criteria Decision Making

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 29th International Conference on Multiple Criteria Decision Making in 2028.

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:

<https://www.mcdmsociety.org/2025/01/12/traditions-of-the-international-society-on-mcdm-related-to-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 the host institution and 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, outings, the banquet, abstract book, etc.) - regular and student fees (as reliable an estimate as possible). Also indicate 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 Wuppertal (Germany) during the 28th International Conference on Multiple Criteria Decision Making, May 25-29, 2026 (<https://mcdm2026.uni-wuppertal.de/en/welcome/>). 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 is more than one promising proposal to organize MCDM 2028, 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 2030 if you are not selected to organize MCDM 2028.

Please send your proposals,

- to the President of the society, Prof. José Rui Figueira at president@mcdmsociety.org,
- to the President-Elect of the society, Prof. Serpil Sayin at ssayin@ku.edu.tr and
- to the secretary of the society, Prof. Salvatore Corrente at secretary@mcdmsociety.org

by **March 31, 2026**. Please direct any questions you may have by email as well.

2 Upcoming Events, Call for Papers, and Other News

2.1 CfP: The MCDM Junior Researcher Best Paper Award 2026 (INFORMS Section on MCDM)

MCDM Junior Researcher Best Paper Award 2026

Deadline for applications: March 1, 2026

Competition's final: 2026 INFORMS Annual Meeting,
November 1-4, San Francisco, California

Dear Colleagues,

The INFORMS Section on MCDM invites nominations for its MCDM Junior Researcher Best Paper Award 2026. This award aims to recognize exceptional papers in the field of multi-criteria decision making, authored by a junior researcher or a team of junior researchers. All members of the MCDM Section of INFORMS are eligible to nominate candidates for this prestigious award. This year, we also accept self-nominations.

Detailed information about the nomination package, application process and selection criteria process can be found at the website below:

<https://connect.informs.org/multiple-criteria-decision-making/awards/new-item2>

Best regards,

Prof. Adiel Teixeira de Almeida, PhD

Universidade Federal de Pernambuco

Chair of the Judging Committee in 2026

almeida@cdsid.org.br



2.2 Cfp: 101st Meeting of the EURO Working Group on Multiple Criteria Decision Aiding (EWG-MCDA 101)

Leeds University Business School, University of Leeds, UK
April 16-18, 2026

The EURO Working Group on MCDA is pleased to announce that the abstract submission deadline has been extended to: **Tuesday, February 11, 2026 (23:59 GMT).**

Conference Theme

EWG-MCDA 101 will bring together researchers and practitioners to discuss recent advances in MCDA theory, methodology, and applications, with a particular focus on explainability, transparency, and sustainability in decision making. The conference theme will be “Explainable and Sustainable Decisions”.

The two days of meeting (Thursday, April 16, 2026 to Friday, April 17, 2026) will be held at the University of Leeds. This is followed by the optional get-together walking tour of York, which will take place on April 18, 2026. A more detail programme will be available once this has been finalised (after the registration deadline).

Scope and Topics

Contributions are invited on all aspects of MCDA, including (but not limited to):

- Explainable and interpretable MCDA methods
- MCDA and explainable artificial intelligence (XAI)
- Sustainability assessment and environmental decision support
- Energy systems, climate, and policy decision making
- Robustness, fairness, and uncertainty in MCDA models
- Preference elicitation and group decision making
- Applications of MCDA in public, industrial, and social contexts

Submission and Contact

Submission details are available at <https://ewgmcda101.leeds.ac.uk>

For enquiries, please contact ewgmcda101@leeds.ac.uk



2.3 CfP: *The 24th Conference of the International Federation of Operational Research Societies (IFORS)*

IFORS will take place from July 12 to 17, 2026, in Vienna, Austria, under the theme “Decision Support for a Sustainable World.”

IFORS is a 60-year-old organisation which is currently composed of 50 national societies. Its origins date to 1955, when the vice-president of the Operations Research Society of America (ORSA) sent a proposal for an international conference to the secretary of the UK society, the Operational Research Society (ORS). The French Society, SOFRO, was added as a sponsoring society to what would be the first in a line of triennial conferences: the 1957 Oxford Conference, described by Maurice Kirby as the fifth of the seven defining moments in OR history.



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Vienna is one of the leading meeting destinations in the world

The city's location in the heart of Europe, excellent infrastructure, short distances and exceptional 'livability' are only some of its many strengths. In addition, Vienna boasts high hospitality standards and an outstanding range of art and cultural events.

The University of Vienna is the oldest university in the German-speaking area and the largest university in Austria. As “universitas litterarum,” the University of Vienna offers a broad range of subjects which promotes the development of new and innovative research areas and fosters strong links between existing research areas. The University of Vienna is located in the city centre. The majority of the lecture halls and conference areas are located in the Main Building of the University of Vienna. Additional lecture halls and seminar rooms are located at the Juridicum and Kolingasse. All these buildings are located within 4-5 minutes walking distance.

Detailed information is available at the following URL:

<https://ifors2026.at/home/>

Important Dates & General Information

Opening of Abstract Submissions: December 1, 2025

Deadline for Abstract Submissions: **March 15, 2026**

Early Bird Registration Deadline: April 25, 2026

Final Registration Deadline for Authors: May 1, 2026

2.4 CfP: Special Issue on “Multiple Criteria Decision Making in Economics and Finance”, Decisions in Economics and Finance

This special issue aims to collect cutting-edge research on the recent advances in MCDM with a particular focus on applications in Economics and Finance. Topics of interest include, but are not limited to:

- Advances in Multiple Objective Programming Techniques
- Multiple Objective Games
- Artificial Intelligence in MCDM
- Ranking Problems
- Portfolio Choice
- Risk Management
- Decision Support Systems
- Sustainability and Environmental Decision Making
- Fuzzy Logic and MCDM
- Group Decision Making Processes
- Hierarchical Decision Models
- Multi-Attribute Utility Theory
- Behavioral Aspects of Decision Making
- Hybrid MCDM Approaches
- Applications of MCDM in Economics and Finance

We look forward to your contributions that explore innovative methodologies and practical applications in these areas. The opening date for the special issue is March 1, 2025. The closing date for submissions is **July 31, 2026**.

The Guest Editors of this Special Issue are:

- Prof. Fouad Ben Abdelaziz
NEOMA Business School, France, fouad.ben.abdelaziz@neoma-bs.fr
- Prof. Davide La Torre
SKEMA Business School, Université Côte d’Azur, France, davide.latorre@skema.edu
- Prof. Matteo Rocca
Università degli Studi dell’Insubria, Italy, matteo.rocca@uninsubria.it

All manuscripts should be submitted electronically using the [journal’s online manuscript submission system](#).

Authors should select the special issue “S.I.: Multiple Criteria Decision Making in Economics and Finance” when they reach the “Additional Information” step in the submission process.

Detailed information is available at the following URL:

<https://link.springer.com/journal/10203/updates/27712002>

2.5 CFP: Multi-Criteria Decision Analysis (MCDA) for Tariffs and Supply Chains: Pathways to Resilient Economic Planning, Socio-Economic Planning Sciences

This special issue aims to address how MCDA can be innovatively applied to tariff design for global supply chains amidst de-globalization trends. We are particularly interested in methodological advancements and empirical applications that illuminate how policymakers, firms, and other stakeholders can better navigate this complex new landscape.

The potential suggested topics include, but are not limited to:

- MCDA methods and applications for balancing supply chain resilience and trade efficiency in tariff design
- Tariff strategies for critical supply chains under geopolitical uncertainty
- Sectoral case studies: energy, healthcare, technology supply chains
- Trade-offs between national self-sufficiency and global cooperation evaluated through MCDA
- Deglobalization metrics integrated into MCDA for supply chain tariffs
- Policy modeling: reshoring, and nearshoring evaluated through multi-criteria lenses
- Environmental and social impacts of protective tariffs, reshoring and nearshoring strategies
- Comparative analysis of tariff policies in emerging vs developed economies using MCDA
- Participatory MCDA approaches to integrate stakeholders (governments, firms, consumers)
- Mitigating cognitive biases in tariff settings for global supply chains through behavioral MCDA approaches.

The Guest Editors of this Special Issue are:

- Dr. Siamak Kheybari (*Leading Guest Editor*)
Lecturer in Business Analytics and Supply Chain Management
Sheffield University Management School, University of Sheffield, UK
- Dr. Amin Vafadarnikjoo
Lecturer in Operations Management and Decision Sciences, Sheffield University
Management School, University of Sheffield, UK
- Dr. Abbi M. Kedir
Director of Research the African Economic Research Consortium (AERC)

Manuscript Submission Information:

Submission Open Date: June 30, 2026

Submission Due Date: **September 30, 2026**

After the submission open date, authors are advised to select the article type ‘*VSI: MCDA for Tariffs and Supply Chains*’ in the [editorial system of the journal](#).

Detailed information is available at the following URL:

<https://www.sciencedirect.com/special-issue/325991/multi-criteria-decision-analysis-mcda-for-tariffs-and-supply-chains-pathways-to-resilient-economic-planning>

2.6 CFP: *Advances in Multiple-Criteria Decision Making: New Trends and Applications, Mathematics*

This Special Issue aims to showcase cutting-edge research on novel approaches, frameworks, and applications in MCDM, reflecting the diverse and evolving landscape of decision making methodologies and their extensions in various domains.

As real-world decision problems grow in complexity and scope, the MCDM methods become a cornerstone for developing frameworks and tools that support making structured, rational, and transparent decisions. With rapid advances in data availability, computational procedures, and algorithmic techniques, innovative MCDM approaches and methodologies continue to emerge, enhancing the ability to address increasingly complex problems with multiple, often conflicting criteria.

This Special Issue seeks to capture these advancements by focusing on innovative theories, methodologies, and applications of MCDM. We encourage papers beyond traditional methodologies, incorporating emerging paradigms and exploring new applications and hybrid models that make MCDM more effective, accessible, and applicable to real-world challenges.

Submission deadline is **July 31, 2026**.

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by [registering](#) and [logging in to this website](#). Once you are registered, [click here to go to the submission form](#). Manuscripts can be submitted until the deadline. All submissions that pass pre-check are peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website.

The Guest Editors of this Special Issue are:

- Prof. Dr. Gabrijela Popovic
Faculty of Applied Management, Economics and Finance, University Business Academy in Novi Sad, Belgrade, Serbia
- Prof. Dr. Marko Mihić
Faculty of Organizational Sciences, University of Belgrade, Belgrade, Serbia

Detailed information is available at the following URL:

https://www.mdpi.com/journal/mathematics/special_issues/NRK4IT237Q

3 Past Conferences, Workshops, and Other News

3.1 Report on “INFORMS Section on MCDM: The MCDM Junior Researcher Best Paper Award 2025”

It is our great pleasure to announce the finalists and winner of the INFORMS Section on MCDM: The MCDM Junior Researcher Best Paper Award 2025.

After a thorough evaluation of the impressive submissions, our panel selected the finalists, who were invited to present their papers at the 2025 INFORMS Annual Meeting in Atlanta. The recipient of this year’s award was revealed at the Business Meeting.

Finalists:

[1] **Lucas Borges Leal da Silva**, Universidade Federal de Pernambuco (UFPE)

Paper Title: A novel spatiotemporal multi-attribute method for assessing flood risks in urban spaces under climate change and demographic scenarios

[2] **Giovanni Misitano**, University of Jyväskylä

Paper Title: Towards explainable interactive multiobjective optimization: R-XIMO

Winner:

Lucas Borges Leal da Silva, Universidade Federal de Pernambuco (UFPE)

Paper Title: A novel spatiotemporal multi-attribute method for assessing flood risks in urban spaces under climate change and demographic scenarios

We congratulate all the finalists for their remarkable achievements and extend a special congratulations to Lucas Borges Leal da Silva for earning this prestigious recognition.

Thank you to all who participated and supported 2025’s awards.

Best regards,

Salvatore Greco

salgreco@unict.it

Chair of the Judging Committee in 2025

4 New Books/Publications

This section provides a curated list of recently published books and papers. The list is generated automatically by a script that identifies works indexed in Scopus using the ORCID profiles of MCDM Society members and filters them with relevant MCDM-related keywords. Please note that this list is not exhaustive.

To ensure your recent publications are featured in the next newsletter, kindly send an email including your ORCID or the complete citation of your works to river.huang@psi.ch.

4.1 Books

Chatterjee P.; Khosla A.; Kumar A.; Demir G., **Optimization in Sustainable Energy: Methods and Applications**, 2026, *Optimization in Sustainable Energy: Methods and Applications*.

4.2 Book chapters

Biswas S.; Demir G.; Chatterjee P., **A Novel p, q-Quasirung Orthopair Fuzzy Group Decision-Making Framework for Selection of Renewable Energy Sources**, 2026, *Optimization in Sustainable Energy: Methods and Applications*, 27-67.

Ranjan R.; Rajak S.; Chatterjee P.; Chauhan D., **Optimization in Sustainable Energy: A Bibliometric Analysis**, 2026, *Optimization in Sustainable Energy: Methods and Applications*, 209-239.

Demir G.; Chatterjee P., **Evaluating Carbon Footprint Reduction Strategies: A Fuzzy Multi-Criteria Decision-Making Approach**, 2026, *Optimization in Sustainable Energy: Methods and Applications*, 69-112.

Demir G.; Chatterjee P., **Strategic Roadmap for Turkey's Sustainable Energy Transition: A Multi-Criteria Perspective**, 2026, *Optimization in Sustainable Energy: Methods and Applications*, 3-25.

Misitano G.; Miettinen K., **The Emerging Role of Explainability in Interactive Multiobjective Optimization: An Exploration of Current Approaches**, 2025, *Natural Computing Series*, Part F380, 149-174.

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5 Mapping 25 Years of MCDM Research: A Scopus-based Analysis of Society Members (2001-2025)

Over the past 25 years, the MCDM field has evolved from a specialized niche into a globally distributed, rapidly expanding, and increasingly application-driven research field. Drawing on data from the Scopus database covering publications authored by members of the International Society on MCDM, this bibliometric analysis offers a structured snapshot of how the community has grown, where it publishes, which themes dominate its agenda, and how its geographical footprint has expanded.

Data and Search Strategy

The analysis is based on records retrieved from the Scopus database. The starting point is the list of ORCID identifiers voluntarily submitted by society members. These ORCIDs were combined in a single Scopus advanced search using a long disjunction:

- ORCID(0000-0001-....) OR ORCID(0000-0002-....) OR ...

To ensure that the retrieved publications are directly related to multi-criteria and multi-objective decision analysis, the ORCID query was combined with a topic filter that targets the relevant terminology in publications:

ALL(multicriteria) OR ALL(multi-criteria) OR ALL(multiple AND criteria) OR ALL(bi-criteria) OR ALL(multi-attribute) OR ALL(multiattribute) OR ALL(multiple AND attribute) OR ALL(multi AND objective) OR ALL(multipleobjectives) OR ALL(multi-objectives) OR ALL(multiple AND objectives) OR ALL(bicriteria) OR ALL(bi-objective) OR ALL(biobjective) OR ALL(many-objective) OR ALL(vector-opimi) OR ALL(vector-maximi) OR ALL(vector-minimi)

The search was restricted to:

- Source type: journals only (SRCTYPE = "j"),
- Publication years: 2001-2025,
- Language: records indexed as English in Scopus.

This procedure yields 4,827 journal records. It is important to stress that:

- The corpus covers only members who submitted their ORCID; it does not represent the entire membership.
- The topic filter may miss some relevant work that does not explicitly use the selected terminology.
- Each publication can contribute multiple times to certain facets (e.g., several authors, multiple countries or subject areas).

The results below should therefore be interpreted as a conservative lower bound on the community's total output and as a structured "snapshot" of its visible profile in Scopus.

5.1 Publication Output Over Time (2001-2025)

The annual number of Scopus-indexed journal publications linked to the society's ORCID list increases from 38 in 2001 to 476 in 2025, representing more than a ten-fold rise over 25 years (see Figure 1). This corresponds to an approximate compound annual growth rate of about 10% per year.

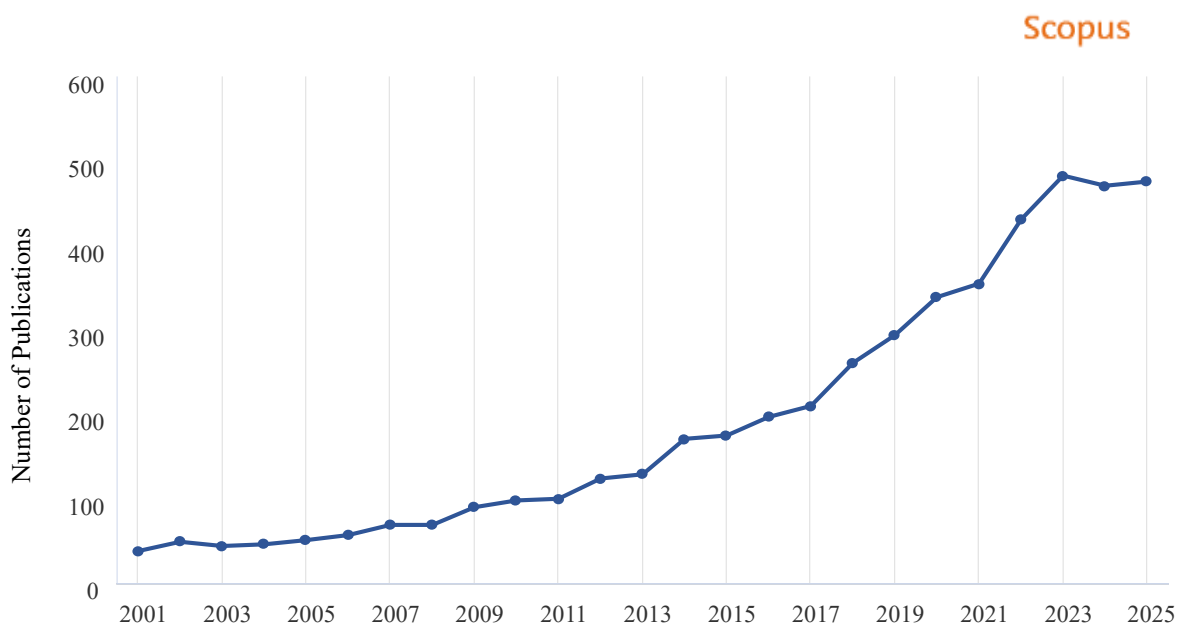


Figure 1 Number of publications per year (2001-2025)

When aggregating by five-year periods, the pattern becomes clearer, as listed in Table 1.

Table 1 Temporal distribution of Scopus-indexed publications (2001-2025)

Period	Number of Publications	Percentage of Total
2001-2004	177	3.7%
2005-2009	336	7.0%
2010-2014	622	12.9%
2015-2019	1,137	23.6%
2020-2025	2,555	52.9%
Total	4,827	100.0%

Two observations follow:

1. The community's visible journal output accelerates markedly after 2010, with a strong step-up between 2015 and 2019.
2. More than half of all indexed publications in this corpus (52.9%) appear since 2020, which points to a phase of rapid expansion and consolidation in the 2020s.

Figure 1 presents the annual publication counts, showing a relatively flat baseline in the early 2000s, a steady rise from the late 2000s, and a steep incline after around 2015.

5.2 *Disciplinary Profile: Scopus Subject Areas*

Scopus classifies each publication into one or more subject areas. In this corpus, the distribution of subject area tags (N=10,958) is heavily concentrated in five core disciplines, which collectively represent nearly three-quarters of all assignments:

- Computer Science
- Decision Sciences
- Mathematics
- Engineering
- Business, Management and Accounting

Additional important areas are:

- Environmental Science and Social Sciences
- Energy
- Other discernible fields include Economics, Econometrics and Finance, Materials Science, and smaller contributions from Chemical Engineering and Agricultural Sciences.

This pattern indicates that the society's members are:

- Methodologically rooted in Computer Science, Decision Sciences, and Mathematics,
- Application-oriented toward Engineering and Business/Management,
- Increasingly engaged with Sustainability, Environment, and Energy Systems.

Figure 2 illustrates a pie chart showing the share of the disciplinary profile of the publications.

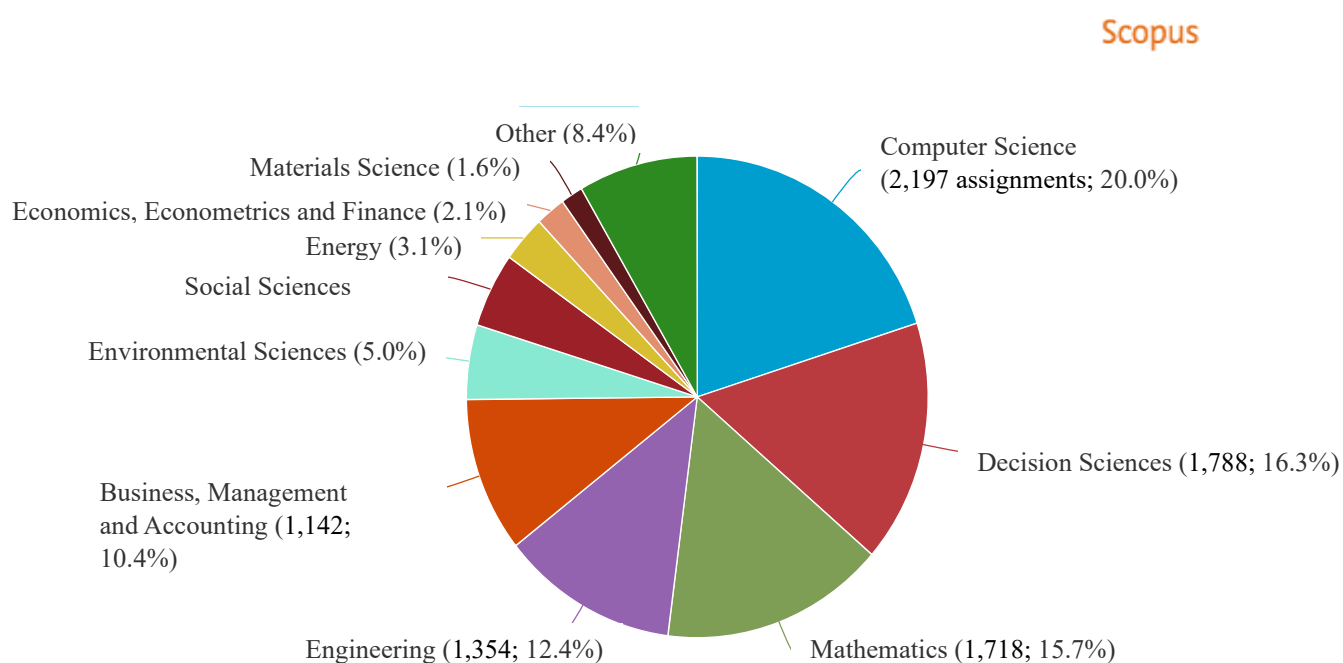


Figure 2 Disciplinary profile

5.3 Publication Venues: Journals

The corpus is restricted to journal publications. Within this set, a relatively small number of journals host a substantial share of the field's output. The leading titles are listed in Table 2.

Table 2 Top 10 Scopus-indexed journals by number of publications

Rank	Journal Title	Count	Focus Area
1	European Journal of Operational Research	345	Core OR
2	Annals of Operations Research	127	Core OR
3	Computers and Operations Research	93	Core OR
4	Sustainability	91	Application/Sustainability
5	Mathematics	71	General Mathematics
6	Omega	70	Core OR
7	Expert Systems with Applications	69	Applied AI/Decision Systems
8	Journal of Cleaner Production	59	Application/Sustainability
9	Journal of Multi-Criteria Decision Analysis	58	Specialized Decision Analysis
10	International Transactions in Operational Research	57	Core OR

These outlets fall broadly into two groups:

i) Core operations research and decision analysis journals

European Journal of Operational Research, Annals of Operations Research, Computers and Operations Research, Omega, International Transactions in Operational Research, Journal of Multi-Criteria Decision Analysis, Journal of Global Optimization, Group Decision and Negotiation, Journal of the Operational Research Society, etc., which naturally align with the community's methodological focus

ii) Application- and sustainability-oriented journals

Sustainability, Journal of Cleaner Production and others, where multi-criteria and multi-objective methods are used as tools for energy, environmental, logistics, and policy applications.

5.4 Thematic Profile: Author Keywords

Author keywords give a more detailed view of recurring topics. After excluding generic indexing terms such as "Article," the most frequent keywords are listed in Figure 3.

These patterns confirm several aspects of the community:

- A strong focus on decision making, multi-objective optimization, and decision support systems, which are at the core of multi-criteria decision aiding.
- Significant attention to uncertainty and robustness (sensitivity analysis, fuzzy sets, risk assessment, uncertainty).
- Increasing emphasis on sustainability and sustainable development, reflecting the growing use of multi-criteria methods in environmental, energy, and socio-technical decision contexts.

- Connections to operations research and optimization techniques (integer programming, linear programming, Pareto-based reasoning).

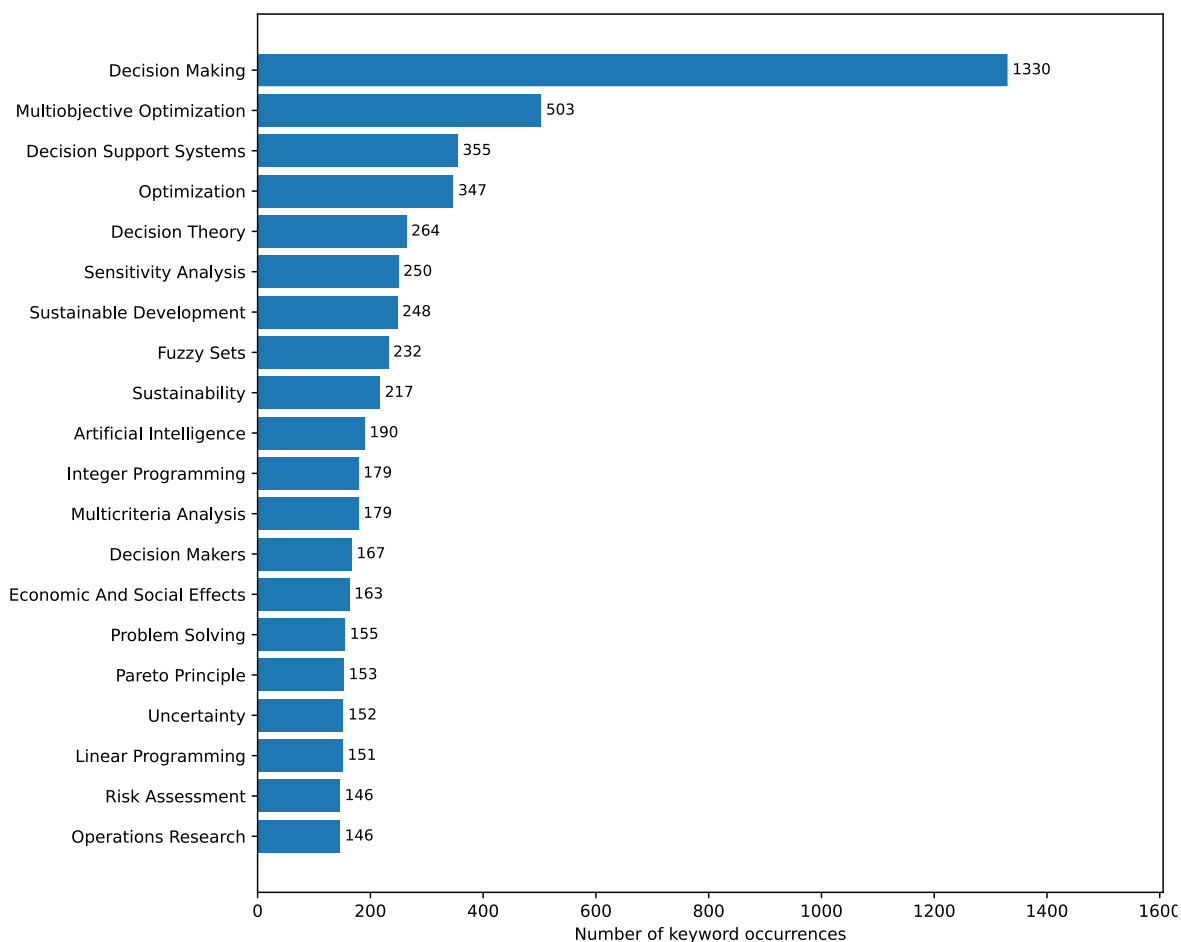


Figure 3 Top 20 author keywords

5.5 Geographical Distribution: Countries

The country facet describes the geographical distribution of the authors' affiliations, where a single publication may involve multiple countries. As summarized in Table 3, the society's publishing activity is strongly international. The distribution highlights a diverse network with major nodes in Europe, Asia, and the Americas.

Table 3 Top 15 countries by author affiliation count

Rank	Country	Count	Percentage	Rank	Country	Count	Percentage
1	India	802	9.4%	9	United States	356	4.2%
2	Spain	700	8.2%	10	Germany	294	3.5%
3	Turkey	523	6.2%	11	France	259	3.0%
4	Portugal	503	5.9%	12	China	244	2.9%
5	United Kingdom	437	5.1%	13	Saudi Arabia	198	2.3%
6	Poland	433	5.1%	14	Iran	196	2.3%
7	Brazil	405	4.8%	15	Serbia	175	2.1%
8	Italy	381	4.5%				

This distribution shows that the society's publishing activity is:

- **Particularly prominent** in *India, Spain, Turkey, Portugal, the United Kingdom, and Poland*, which collectively account for a significant portion of the output (~40%),
- **Complemented by contributions** from countries with long OR and MCDA traditions, including *Brazil, Italy, the USA, Germany, France, Finland, and Switzerland*,
- **Supported by emerging hubs** in the Middle East and East Asia, notably *Saudi Arabia, Iran, and China*.

Figure 4 presents the global distribution of Scopus-indexed journal publications (2001-2025) linked to society members' ORCID IDs. The choropleth map reveals a broad geographic reach, highlighting significant research activity across Europe, Asia, the Americas, Africa, and Oceania.

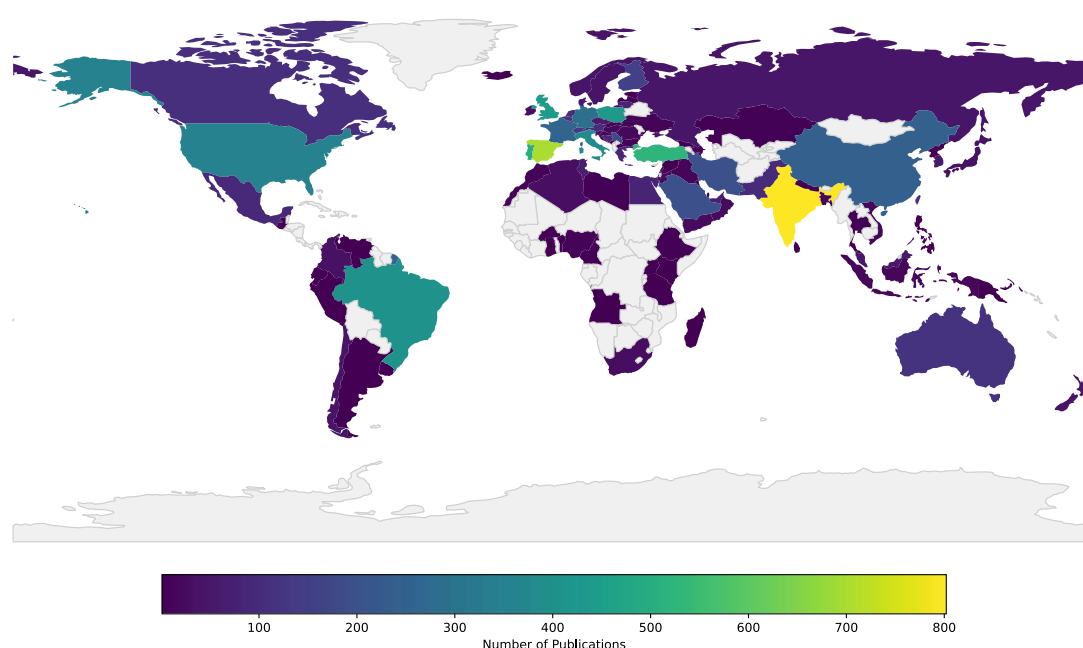


Figure 4 Geographical distribution of Scopus-indexed journal publications (2001-2025) by country for society members who provided ORCID identifiers; countries with brighter yellow tones indicate higher publication counts, while darker purple tones indicate lower publication counts, and grey countries correspond to countries with no recorded publications in the dataset.

Summary

In summary, this Scopus-based analysis of 4,827 journal publications linked to members who submitted their ORCID codes shows:

- **Rapid growth** of the community's visible output since 2001, with a particularly strong acceleration after 2015; notably, more than half of all publications have appeared within the last five years.

- A **methodologically strong and application-rich profile**, centered on Computer Science, Decision Sciences, Mathematics, and Engineering, with substantial engagement in environmental, social, and energy domains.
- A **concentrated but diverse portfolio of journals**, with core OR and decision-analysis outlets playing a central role, alongside sustainability and application-driven journals.
- A **thematic focus** on decision making, multi-objective optimization, decision support systems, uncertainty, and sustainability, as evidenced by author keywords.
- A **truly international footprint**, with strong contributions from Europe, Asia, and the Americas, and a dense network of institutional hubs.

This bibliometric analysis was prepared by River Huang, who conducted the data analysis, and edited by Ece Demirer and Gülşah Karakaya.

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 15th and the issue is published by the end of January. The deadline for the September issue is usually August 20th and the issue is published at the beginning of September. Contributions can be sent at any time to the editor (please see the address provided above).