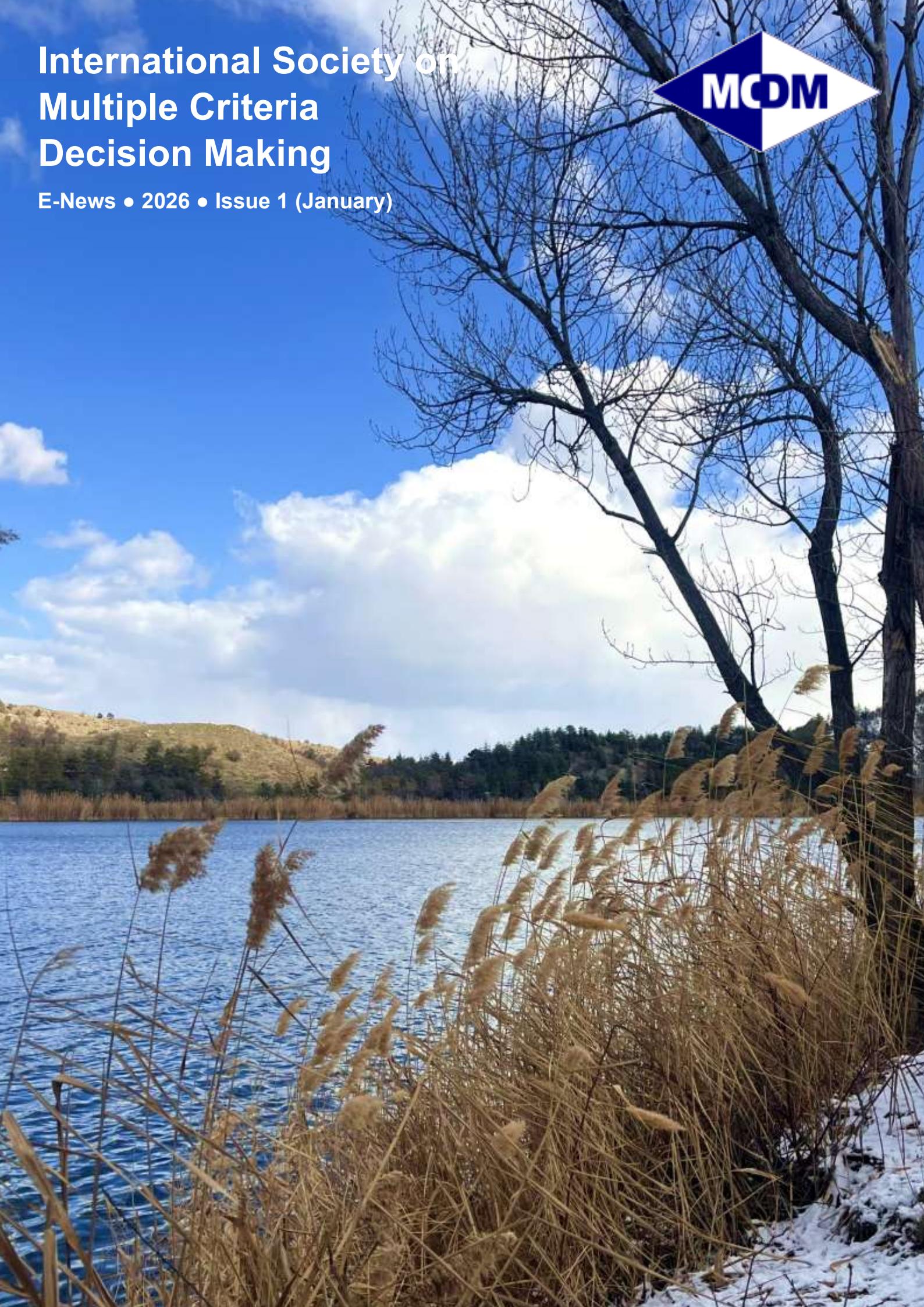


International Society on Multiple Criteria Decision Making

E-News • 2026 • Issue 1 (January)

MCDM



Contents

Letter from the President	2
1 Society News	3
1.1 2026 EURO PhD Summer School on MCDA/MCDM	3
1.2 Call for Proposals: 28 th International Conference on Multiple Criteria Decision Making 2026, University of Wuppertal, Germany	5
1.3 Call for Application: MCDM Doctoral Dissertation Award 2026.....	7
1.4 Call for Nominations: Awards of the International Society on MCDM 2026.....	8
1.5 Call for Proposals: Organization of the MCDM 2028 International Conference on Multiple Criteria Decision Making.....	9
2 Upcoming Events, Call for Papers, and Other News.....	11
2.1 CfP: The MCDM Junior Researcher Best Paper Award 2026 (INFORMS Section on MCDM)	11
2.2 CfP: 101 st Meeting of the EURO Working Group on Multiple Criteria Decision Aiding (EWG-MCDA 101)	12
2.3 CfP: The 24 th Conference of the International Federation of Operational Research Societies (IFORS).....	13
2.4 CfP: Special Issue on “Multiple Criteria Decision Making in Economics and Finance”, Decisions in Economics and Finance	14
2.5 CfP: Multi-Criteria Decision Analysis (MCDA) for Tariffs and Supply Chains: Pathways to Resilient Economic Planning, Socio-Economic Planning Sciences ...	15
2.6 CfP: Advances in Multiple-Criteria Decision Making: New Trends and Applications, Mathematics	16
3 Past Conferences, Workshops, and Other News.....	17
3.1 Report on “INFORMS Section on MCDM: The MCDM Junior Researcher Best Paper Award 2025”.....	17
4 New Books/Publications	18
4.1 Books.....	18
4.2 Book chapters	18
4.3 Journal papers.....	19
4.4 Conference papers	40
5 Mapping 25 Years of MCDM Research: A Scopus-based Analysis of Society Members (2001-2025).....	43
5.1 Publication Output Over Time (2001-2025)	44
5.2 Disciplinary Profile: Scopus Subject Areas	45
5.3 Publication Venues: Journals	46
5.4 Thematic Profile: Author Keywords	46
5.5 Geographical Distribution: Countries	47
6 Imprints	50

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.

Hamidoğlu A.; Gütmen S.; Weber G.W., **Aggregate Production Planning: A Novel Game Model**, 2025, *Operations Research: Evolving Frontiers and Diverse Applications*, 116-129.

Das M.R.; Satapathy S.; Pothal L.K., **Sustainable Mining Waste Management by Eco Logistics**, 2025, *Eco-Logistics and Sustainable Supply Chain Innovations*, 345-363.

Huang H.; Metzger D.J.; Siskos E.; Burgherr P., **Analyzing Swiss Energy Policy Through a Fuzzy BWM-PROMETHEE Approach: A Socio-Political Multi-criteria Decision Analysis**, 2025, *Lecture Notes in Operations Research*, Part F214, 1-21.

Muratori S.; Hykšová M.; Janković-Milić V.; Luè A.; Pereira A.M.; Marjanović I.; Mazzeschi V.; Paruscio V.; Stanković J.; Studer L., **A Multicriteria Framework for the Evaluation of Qualitative and Quantitative Impacts of Sharing Mobility Services**, 2025, *Lecture Notes in Mobility*, Part F147, 710-716.

Baydaş M.; Özçil A.; Stević Ž., **An Advanced Procedure for the Comparability Standard of Neutrosophic, Grey, and Crisp Numbers: Selection of Electric Sports Utility Vehicles**, 2025, *Studies in Fuzziness and Soft Computing*, 435, 75-100.

Stević Ž.; Ristić B.; Bogdanović V.; Subotić M., **Comparison of Signalized Intersections Based on Start-Up Time of Pedestrians: Fuzzy MCDM Model**, 2025, *Lecture Notes in Intelligent Transportation and Infrastructure*, Part F230, 598-606.

Akdoğan K.; Özceylan E.; Weber G.W., **A Bibliometric and Descriptive Review of Mathematical Models for Vulnerable and Resilient Supply Chain Management**, 2025, *Operations Research: Evolving Frontiers and Diverse Applications*, 1-24.

Lombardi P.; Torabi Moghadam S.; Ayik E.; Bilgiç O.K., **Supporting Blue-Green Infrastructures in Cities Using SN Tool and GIS-Based Impact Assessment**, 2025, *Green Energy and Technology*, Part F395, 155-176.

4.3 Journal papers

Corrales D.; Ríos Insua D.; González M.J., **A decision support model for colorectal cancer screening**, 2025, *Computers in Biology and Medicine*, 196, 110755.

Bakary S.J.; Bouraima M.B.; Aytekin A.; Ntoh-Gyan K., **Proposing Appropriate Strategies for Domestic Tourism Promotion in Developing Country by Fuzzy Fermatean MCDM Approach**, 2025, *Journal of Applied Research on Industrial Engineering*, 12(2), 246-270.

Özaydın Ö.; Kabak Ö.; Topcu Y.I.; Ülengin F.; Onsel Ekici, **Analysis of direct and indirect relations among sustainable development goals and transportation targets**, 2025, *Transport Policy*, 171, 270-281.

Zhou K.; Gong Z.; Wei G.; Słowiński R., **Preference disaggregation analysis with criteria selection in a regularization framework**, 2025, *Omega (United Kingdom)*, 133, 103252.

Fontoura L.; Luiz de Mattos Nascimento D.; Neto J.V.; Gusmão Caiado R.G., **Energy Gen-AI technology framework: A perspective of energy efficiency and business ethics in operation management**, 2025, *Technology in Society*, 81, 102847.

Afonso G.P.; Figueira J.R.; Ferreira D.C., **Dealing with uncertainty in healthcare performance assessment: a fuzzy network-DEA approach with undesirable outputs**, 2025, *International Transactions in Operational Research*, 32(5), 2732-2766.

Canon J.G.F.; dos Santos R.J.R.; de Carvalho V.D.H.; Monte M.B.D.S.; de Barros T.L., **Integrated Logistics Management Through ERP System: A Case Study in an Emerging Regional Market**, 2025, *Logistics*, 9(2), 59.

Shaw L.; Das S.K.; Roy S.K.; Sakalauskas L.; Weber G.-W.; Dan H., **Redistribution of humanitarian items in disaster management multi-period location-allocation problem under type-2 neutrosophic environment**, 2025, *Applied Soft Computing*, 177, 113217.

Tran N.H.N.; Amado C.A.E.F.; Santos S.P., **Academic self-initiated expatriates' management in host transnational higher education institutions: motivations, perceived challenges and work performance**, 2025, *Journal of Global Mobility*, 13(2), 219-239.

Dash B.; Macedo V.D.J.; Mohanachandran D.K.; Pokkuluri K.S.; Rathinakumar V.; Sethi K.C., **Optimizing time and cost in construction under uncertainty: a fuzzy-driven NSGA-III optimization approach**, 2025, *Asian Journal of Civil Engineering*, 26(7), 3099-3114.

Pandey V.K.; Prakash S.; Ranjan A.; Jha S.K.; Liu X.; Rathore R.S., **An Efficient Framework for Secure Communication in Internet of Drone Networks Using Deep Computing**, 2025, *Designs*, 9(3), 61.

Pandey V.K.; Prakash S.; Gupta T.K.; Sinha P.; Yang T.; Rathore R.S.; Wang L.; Tahir S.; Bakhsh S.T., **Enhancing intrusion detection in wireless sensor networks using a Tabu search based optimized random forest**, 2025, *Scientific Reports*, 15(1), 18634.

Ramkumar B.V.; Savitha S.; Dhandapani A.; Bhonsle M.; Pokkuluri K.S.; Kirubanand V.B., **Adaptive Fuzzy Heuristic Algorithm for Dynamic Data Mining in IoT Integrated Big Data Environments**, 2025, *Journal of Fuzzy Extension and Applications*, 6(3), 615-636.

El-Zathry N.E.; Akinlabi S.; Woo W.L.; Patel V.; Mahamood R.M.; Sabry I., **Enhancing friction stir-based techniques with machine learning: a comprehensive review**, 2025, *Machine Learning: Science and Technology*, 6(2), 021001.

Li Y.; Guo M.; Kadziński M.; Zhang Q.; Xu C., **Data-driven preference learning methods for sorting problems with multiple temporal criteria**, 2025, *European Journal of Operational Research*, 323(3), 918-937.

Gülmez B., **A Comprehensive Review of Convolutional Neural Networks based Disease Detection Strategies in Potato Agriculture**, 2025, *Potato Research*, 68(2), 1295-1329.

Sahu D.; Nidhi; Prakash S.; Sinha P.; Yang T.; Rathore R.S.; Wang L., **Beyond boundaries a hybrid cellular potts and particle swarm optimization model for energy and latency optimization in edge computing**, 2025, *Scientific Reports*, 15(1), 6266.

Soni V.; Banwet D.K., **Does a student's attendance and a classroom task significantly enhance learning outcomes? Implications of policy in gamely and management education**, 2025, *International Journal of Management Education*, 23(2), 101163.

De Paula J.M.P.; Pinto F.S.; Arantes A.; Marques R.C., **Closing the loop on water supply and sanitation: The dynamic links between population, ecosystems, and economic interactions**, 2025, *Sustainable Futures*, 9, 100434.

Meher B.B.; Jeevaraj S., **Trapezoidal-valued intuitionistic fuzzy Aczel-Alsina weighted geometric aggregation operator and its applications to selection of e-learning platform**, 2025, *Computational and Applied Mathematics*, 44(6), 285.

Chawla D.; Kumari S.; Rathore R.S.; Mehra P.S.; Das A.K.; Kumar N., **Quantum Blockchain for Internet of Things: A systematic review, proposed solutions and challenges**, 2025, *Computers and Electrical Engineering*, 126, 110524.

Ruiz A.B.; González-Gallardo S.; Luque M.; Fernández-Rodero P.M.; Ruiz F., **A decision support approach for sustainability management using multiple criteria decision making and statistical techniques**, 2025, *Sustainable Futures*, 9, 100484.

Murat M.; Ayyildiz E.; Asan U., **Evaluating the Vulnerability of Forestry Supply Chains Through Fuzzy Cognitive Map**, 2025, *European Journal of Forest Engineering*, 11(1), 30-41.

Rossitti M.; Oteri A.M.; Torrieri F., **The social value of built heritage: an interdisciplinary discourse**, 2025, *Built Heritage*, 9(1), 5.

Lopes G.; Klamroth K.; Paquete L., **A greedy hypervolume polychromatic scheme for multiobjective combinatorial optimization**, 2025, *Computers and Operations Research*, 183, 107140.

de Almeida J.A.; Frej E.A.; Roselli L.R.P.; de Almeida A.T., **Analytical aspects of combining holistic evaluation and decomposition elicitation for preference modeling in the FITradeoff method**, 2025, *International Transactions in Operational Research*, 32(6), 3896-3937.

Sahu D.; Nidhi; Prakash S.; Pandey V.K.; Yang T.; Rathore R.S.; Wang L., **Edge assisted energy optimization for mobile AR applications for enhanced battery life and performance**, 2025, *Scientific Reports*, 15(1), 10034.

Caiado R.G.G.; Scavarda L.F.; Vidal G.; de Mattos Nascimento D.L.; Garza-Reyes J.A., **A taxonomy of critical factors towards sustainable operations and supply chain management 4.0 in developing countries**, 2025, *Operations Management Research*, 18(2), 744-767.

Meher B.B.; S J.; Alrasheedi M., **Dombi weighted geometric aggregation operators on the class of trapezoidal-valued intuitionistic fuzzy numbers and their applications to multi-attribute group decision-making**, 2025, *Artificial Intelligence Review*, 58(7), 205.

Greco S.; Słowiński R.; Wallenius J., **Fifty years of multiple criteria decision analysis: From classical methods to robust ordinal regression**, 2025, *European Journal of Operational Research*, 323(2), 351-377.

dos Santos D.S.; Klamroth K.; Martins P.; Paquete L., **Solving the Multiobjective Quasi-clique Problem**, 2025, *European Journal of Operational Research*, 323(2), 409-424.

Heikkinen R.; Karvanen J.; Miettinen K., **A Bayesian model for portfolio decisions based on debiased and regularized expert predictions**, 2025, *Journal of Business Economics*, 95(5), 669-706.

Sinha P.; Sahu D.; Prakash S.; Yang T.; Rathore R.S.; Pandey V.K., **A high performance hybrid LSTM CNN secure architecture for IoT environments using deep learning**, 2025, *Scientific Reports*, 15(1), 9684.

Ayhan E.; Gündoğdu H.G.; Aytekin A.; Karakaya A.F.; Simic V.; Pamucar D., **Enhancing the sustainability and effectiveness of non-governmental organizations: An integrated neutrosophic decision-making model for determining the most effective corporate governance strategies**, 2025, *Engineering Applications of Artificial Intelligence*, 156, 111245.

Moreira M.Â.L.; Pereira M.T.; Costa I.P.D.A.; Gomes C.F.S.; Santos M.D., **SAPEVO-H2 Multi-Criteria Modelling to Connect Decision-Makers at Different Levels of Responsibility: Evaluating Sustainability Projects in the Automobile Industry**, 2025, *Modelling*, 6(2), 43.

Wang K.; Li X.-Y.; Zhu B.-W.; Xiong L.; Tzeng G.-H., **A data mining approach to explore the causal rules between environmental conditions of neighborhood parks and seniors' satisfaction**, 2025, *Cities*, 162, 105897.

Ferreira D.V.; de Oliveira V.; Ferreira T.V.; Henriques de Gusmão A.P., **Decision model for selecting a portfolio of non-technical loss mitigation projects for power distribution systems**, 2025, *Utilities Policy*, 95, 101967.

Sabry I.; El-Attar T.; Hewidy A.M., **Optimization of Fused Deposition Modelling Acrylonitrile-co-Butadiene-co-Styrene Parameters using ANOVA and Hybrid GRA-TOPSIS**, 2025, *Journal of Advanced Research in Applied Sciences and Engineering Technology*, 50(1), 66-77.

Fernández E.; Figueira J.R.; Navarro J.; Picos J.; Solares E., **An improved way to handle the strength of the discordance coalition in ELECTRE multiple criteria decision methods**, 2025, *Operational Research*, 25(2), 40.

Sabry I.; Awayssa O.; Mourad A.-H.I.; Naseri M.; Hewidy A., **Enhancement of the mechanical characteristics for Inconel 700 alloy using friction stir welding with a unique tool shape**, 2025, *International Journal of Lightweight Materials and Manufacture*, 8(4), 415-430.

Solano Noriega J.J.; Leyva López J.C.; Oñate Ochoa C.A.; Figueira J.R., **A coevolutionary algorithm for exploiting a large fuzzy outranking relation**, 2025, *European Journal of Operational Research*, 323(2), 540-552.

Rossi L.; Bijman R.; Westerveld H.; Christianen M.; Luthart L.; Huge M.; Kolkman-Deurloo I.-K.; Mens J.W.; Abusaris H.; de Boer R.; Breedveld S.; Heijmen B.; Nout R., **Prospective evaluation of AI-based BiCycle autoplanning for advanced cervical cancer brachytherapy**, 2025, *Radiotherapy and Oncology*, 210, 111029.

da Silva L.B.L.; de Almeida J.A.; de Almeida A.T., **A novel multicriteria web-based decision support system to enhance resource allocation in energy companies: a portfolio selection with c-optimal PROMETHEE**, 2025, *International Transactions in Operational Research*, 32(4), 1861-1892.

González-Pozo R.; Arenas-Parra M.; Quiroga-García R.; Bilbao-Terol A., **A proposal for refining the ESG methodology used by rating agencies**, 2025, *International Transactions in Operational Research*, 32(4), 2003-2033.

Biswas B.; Biswas S.; Pamucar D.; Simic V., **A novel intuitionistic fuzzy based computing model for unravelling key attributes of service quality for higher education management**, 2025, *Technology in Society*, 83, 102982.

Sirbiladze G.; Garg H.; Midodashvili B.; Parshutkin I.; Ghvaberidze B., **Decision-making framework with q-rung picture fuzzy linguistic information and its applications to logistics hubs during disaster response establishment**, 2025, *Results in Control and Optimization*, 19, 100541.

Sabry I.; El-Deeb M.S.S., **Enhanced structural integrity and tribological performance of Al6061-Al6082 alloys reinforced with TiB2 and Al2O3 via friction stir welding**, 2025, *International Journal of Advanced Manufacturing Technology*, 138(7), 2893-2910.

Georgiou A.C.; Tsaples G.; Thanassoulis E., **Planning methods using data envelopment analysis and markov systems**, 2025, *European Journal of Operational Research*, 326(3), 569-584.

Martins C.L.; dos Santos-Neto J.B.S.; Frej E.A.; da Silva L.B.L.; de Almeida A.T., **A GIS-based multicriteria decision support system for natural gas distribution planning**, 2025, *Discover Applied Sciences*, 7(7), 701.

Peña G.A.; Mateos A.; Jiménez-Martín A.; Sanchis R.G., **A decision support system for risk reduction in pandemic spread based on the management of passenger air traffic**, 2025, *International Transactions in Operational Research*, 32(4), 1893-1917.

Murat M.; Asan U., **Learning fuzzy cognitive maps for prediction problems using swarm intelligence based on an input-sensitive reasoning mechanism**, 2025, *Applied Soft Computing*, 177, 113256.

Huang H.; Sun S.; Mommens K.; Macharis C., **The MAMCABM framework for the evaluation of mobility decision-making problems: theory and practice**, 2025, *International Transactions in Operational Research*, 32(4), 1950-1976.

Huertas A.; Moreno A.; Zaragozí B.; Santos-Lacueva R.; Anton Clavé S., **Analysing social media climate change discourses by coastal destinations**, 2025, *European Journal of Tourism Research*, 40, 4013.

Pandey V.K.; Sahu D.; Prakash S.; Rathore R.S.; Dixit P.; Hunko I., **A lightweight framework to secure IoT devices with limited resources in cloud environments**, 2025, *Scientific Reports*, 15(1), 26009.

Fernández E.; Navarro J.; Solares E.; Díaz R.; Molina Morejón V.M., **An outranking relation built on an additive value function preference model: Creating synergy between both paradigms**, 2026, *Omega (United Kingdom)*, 138, 103384.

Xu Y.; Kou G.; Ergu D., **Profit-based uncertainty estimation with application to credit scoring**, 2025, *European Journal of Operational Research*, 325(2), 303-316.

Ward O.M.G.; Fraga E.S.; Galvanin F.; Jurado N.; Blackburn D.; Warren R.J.; Acres J., **A dynamic model of a power conversion system with indirect thermal energy storage for a pulsed fusion tokamak for use in design optimisation**, 2025, *Fusion Engineering and Design*, 219, 115289.

Kerboui R.; Abbas M.; Pirlot M., **Ranking methods based on the dominance degree. An investigation of rank reversal**, 2025, *Computers and Operations Research*, 183, 107196.

Sahu D.; Nidhi; Chaturvedi R.; Prakash S.; Yang T.; Rathore R.S.; Wang L.; Tahir S.; Bakhsh S.T., **Revolutionizing load harmony in edge computing networks with probabilistic cellular automata and Markov decision processes**, 2025, *Scientific Reports*, 15(1), 3730.

Kannan J.; Jayakumar V.; Saeid A.B., **Lattice Algebraic Structures on LDMFS Domains**, 2025, *New Mathematics and Natural Computation*, 21(2), 487-507.

Aguarón J.; Altuzarra A.; Aznar R.; Escobar M.T.; Jiménez-Martín A.; Mateos A.; Moreno-Díaz A.; Moreno-Jiménez J.M.; Moreno-Loscertales C.; Muerza V.; Navarro J.; Sarango A.; Turón A.; Vargas L.G., **Mood and emotion assessment for risk reduction of pandemic spread through passenger air transport: a DSS applied to the COVID-19 in the case of Spain**, 2025, *International Transactions in Operational Research*, 32(4), 1918-1949.

Carrizosa E.; Kurishchenko K.; Romero Morales D., **On enhancing the explainability and fairness of tree ensembles**, 2025, *European Journal of Operational Research*, 323(2), 599-608.

Chen X.; He Y.; Hooshmand Pakdel G.; Yeh C.-H., **Intelligent forecasting and distribution in cross-border e-commerce import trade: A deep-learning-based iterative optimization approach**, 2025, *Omega (United Kingdom)*, 133, 103277.

del Campo C.; Bai J.; Keller L.R., **Modeling cost-effectiveness analysis of treatment sequencing**, 2025, *Socio-Economic Planning Sciences*, 99, 102210.

Sahu D.; Sinha P.; Prakash S.; Yang T.; Rathore R.S.; Wang L., **A multi objective optimization framework for smart parking using digital twin pareto front MDP and PSO for smart cities**, 2025, *Scientific Reports*, 15(1), 7783.

Manzolli J.A.; Messier P.; Trovão J.P.F.; Henggeler Antunes C., **Decision-making in bus-transit systems: A comprehensive approach based on stochastic multi-criteria acceptability analysis**, 2025, *Sustainable Futures*, 9, 100653.

Zakeri S.; Konstantas D.; Chatterjee P.; Zavadskas E.K., **Soft cluster-rectangle method for eliciting criteria weights in multi-criteria decision-making**, 2025, *Scientific Reports*, 15(1), 284.

Goli A.; Babaee Tirkolaee E.; Golmohammadi A.-M.; Atan Z.; Weber G.-W.; Ali S.S., **A robust optimization model to design an IoT-based sustainable supply chain network with flexibility**, 2025, *Central European Journal of Operations Research*, 33(3), 1025-1046.

Çelik B.; Gul S.; Karsu Ö., **Maintaining fairness in stochastic chemotherapy scheduling**, 2025, *Omega (United Kingdom)*, 137, 103338.

Okur G.E.; Karsu Ö.; Solyalı O., **Lagrangian Relaxation for Airport Gate Assignment Problem**, 2025, *Computers and Operations Research*, 183, 107186.

Gülmez B., **Deep learning based colorectal cancer detection in medical images: A comprehensive analysis of datasets, methods, and future directions**, 2025, *Clinical Imaging*, 125, 110542.

Vafadarnikjoo A.; Chalvatzis K.; Botelho T.; Maliszewski K., **Risk assessment of the UK electricity supply network: A preference-based decision support method**, 2025, *Reliability Engineering and System Safety*, 264, 111439.

Aven T.; Rios Insua D.; Soyer R.; Zhu X.; Zio E., **Fifty years of reliability in operations research**, 2025, *European Journal of Operational Research*, 324(2), 361-381.

Fernández E.; Figueira J.R.; Navarro J.; Solares E.; Díaz R., **Integrating second-order effects in ELECTRE methods with an interval-based approach**, 2025, *Omega (United Kingdom)*, 137, 103353.

Díaz Schery C.A.; Caiado R.G.G.; Aguilar Vargas S.; Rodriguez Vignon Y., **Paths to BIM-based digital transformation: a bibliometric and systematic review of critical factors**, 2025, *Engineering, Construction and Architectural Management*, 32(7), 4357-4383.

Kummari K.; Jaichander R.R.; Treană S.; Pirje C.F., **Robust parametric ER-Karush–Kuhn–Tucker optimality criteria for fractional interval-valued optimization problems**, 2025, *Rendiconti del Circolo Matematico di Palermo*, 74(4), 121.

Bohanec M., **DEXi Suite: DEXi decision modelling software**, 2025, *SoftwareX*, 31, 102240.

Mahouachi S.; Elarbi M.; Bechikh S., **Bi-level Evolutionary Model Tree Chain Induction for Multi-output Regression**, 2025, *Neurocomputing*, 646, 130280.

Li W.; Ye X.; Zhu B.-W., **A decision-making model for the adaptive reuse of ‘buildings of control and reform’: the Nossa Senhora Village, Macau**, 2025, *Humanities and Social Sciences Communications*, 12(1), 231.

Dharmalingam M.; Kang D., **A study on sustainable system for managing municipal solid waste through a multi-criteria group decision-making technique**, 2025, *Engineering Applications of Artificial Intelligence*, 150, 109393.

Jayakumar V.; Pethaperumal M.; Kausar N.; Pamucar D.; Simic V.; Salman M.A., **Lattice-Based Decision Models for Green Urban Development: Insights from Lq* q-Rung Orthopair Multi-fuzzy Soft Set**, 2025, *International Journal of Computational Intelligence Systems*, 18(1), 46.

Subhadarsini S.; Kumar D.N.; Govindaraju R.S., **Enhancing Hydro-climatic and land parameter forecasting using Transformer networks**, 2025, *Journal of Hydrology*, 655, 132906.

Rahman M.M.; Farhana Z.; Al Noman A.; Hossain N.; Kamil A.A.; Riaz B.K., **Burden of hypertension, diabetes, and hypercholesterolemia in relation to social and behavioral health determinants: Insights from the 2018 Bangladesh STEPS survey**, 2025, *Public Health*, 246, 105832.

Shariatzadeh M.; Lopes M.A.R.; Henggeler Antunes C., **Electric vehicle users’ charging behavior: A review of influential factors, methods and modeling approaches**, 2025, *Applied Energy*, 396, 126167.

Pradhan A.; Karan A.; Das S.; Biswal M.P., **Avoid Maximum Cost Method for Solving Linear Fractional Transshipment Problem**, 2025, *International Journal of Mathematical, Engineering and Management Sciences*, 10(3), 654-675.

Vimala J.; Surya A.N.; Kausar N.; Pamucar D.; Simic V.; Salman M.A., **Extended PROMETHEE method with (p,q)-rung linear Diophantine fuzzy sets for robot selection problem**, 2025, *Scientific Reports*, 15(1), 69.

Maristany de las Casas P.; Sedeño-Noda A.; Borndörfer R.; Huneshagen M., **K-shortest simple paths using biobjective path search**, 2025, *Mathematical Programming Computation*, 17(2), 349-384.

Figueira J.R.; Klamroth K.; Stiglmayr M.; Sudhoff Santos J., **On the computational complexity of ordinal multi-objective unconstrained combinatorial optimization**, 2025, *Operations Research Letters*, 61, 107302.

Xu Y.; Wu X.; Tang M.; Yeh C.-H.; Zhang L., **Developing effective intervention strategies to improve public participation in household waste recycling program: A data-driven agent-based behavior analysis approach**, 2025, *Sustainable Cities and Society*, 127, 106447.

Könen D.; Stiglmayr M., **An output-polynomial time algorithm to determine all supported efficient solutions for multi-objective integer network flow problems**, 2025, *Discrete Applied Mathematics*, 376, 1-14.

Dias L.C.; Marques P.; Garcia R.; de Santo F.; Tentúgal R.; Natal-da-Luz T.; Sousa Á.; Sousa J.P.; Freire F., **A multicriteria sustainability assessment for improving integrated pest management for vineyards**, 2025, *Journal of Cleaner Production*, 505, 145489.

Gaul D.; Klamroth K.; Pfeiffer C.; Stiglmayr M.; Schulz A., **A tight formulation for the dial-a-ride problem**, 2025, *European Journal of Operational Research*, 321(2), 363-382.

Tavana M.; Dellnitz A.; Yazdani M., **A comparative fuzzy strategic assessment framework for space mission selection at NASA**, 2025, *Journal of Industrial Information Integration*, 45, 100840.

Ahmed M.A.; Zaidan A.A.; Qahtan S.; Alsattar H.A.; Zaidan B.B.; Mourad N.; Baharin H.; Kou G.; Yatim K., **Complex Pythagorean Fuzzy Decision-Based Approach for Developing English Translation of the Scripture-Based Multiclustering Algorithms**, 2025, *International Journal of Information Technology and Decision Making*, 24(2), 473-533.

Zhang X.; Feng Q.; Li Y.; Zheng C.; Corrente S., **A representative product configuration ranking approach considering requirement interactions and inconsistent group preferences**, 2025, *International Journal of Production Economics*, 282, 109534.

Kalaycı B.; Purutçuoğlu V.; Weber G.W., **Optimal model description of finance and human factor indices**, 2025, *Central European Journal of Operations Research*, 33(1), e01262.

Ravanos P.; Kourtzidis S.; Karagiannis G., **Inverted VEA for worst-practice benchmarking: with an application to distress prediction of European banks**, 2025, *Annals of Operations Research*, 347(1), 102377.

Banu K.A.; Vimala J.; Karaaslan F.; Sri S.N., **An advanced algorithmic approach based on lattice-ordered complex linear diophantine fuzzy soft set with an associated navigational case study**, 2025, *Journal of Supercomputing*, 81(5), 649.

Gülmez B., **GA-Attention-Fuzzy-Stock-Net: An optimized neuro-fuzzy system for stock market price prediction with genetic algorithm and attention mechanism**, 2025, *Helijon*, 11(3), e42393.

Patel J.; Deshmukh A.K., **Corporate Social Responsibility (CSR) Nudge: A SAP-LAP-IRP Inquiry into the Discretion to Mandate**, 2025, *Global Journal of Flexible Systems Management*, 26(1), e2147.

Raith A.; Lusby R.; Sohrabi Yousefkhan A.A., **Benders decomposition for bi-objective linear programs**, 2025, *European Journal of Operational Research*, 322(2), 376-400.

Castiglione F.; Corrente S.; Greco S.; Bianucci P.; Sordo-Ward A.; Garrote L.; Foti E.; Musumeci R.E., **Interactive multiobjective evolutionary optimization model for dam management support**, 2025, *Journal of Hydrology*, 647, 132304.

Aytekin A.; Küçük H.Ö.; Aytekin M.; Simic V.; Pamucar D., **Evaluation of international market entry strategies for mineral oil companies using a neutrosophic SWARA-CRADIS methodology**, 2025, *Applied Soft Computing*, 174, 112976.

Dolcini M.; Borghi S.; Rossitti M.; Brambilla A.; Mangili S.; Torrieri F.; Capolongo S., **Facility Management Costs for Hospital Infrastructures: Insights from the Italian Healthcare System**, 2025, *Healthcare (Switzerland)*, 13(8), 924.

Bihari R.; S J.; Kumar A., **A new simplex algorithm for interval-valued Fermatean fuzzy Linear programming problems**, 2025, *Computational and Applied Mathematics*, 44(1), 44.

Sharma N.; Kumar R.; Vihari N.S.; Arora M.; Saini J.R., **Prioritizing Smart City Themes for Multi-National Enterprises and United Nations Sustainable Development Goals**, 2025, *Sustainability (Switzerland)*, 17(10), 4251.

Pokkuluri K.S.; Chauhan T.R.; Macedo V.D.J.; Manjunath T.C.; Bharadwaj M.; Sethi K.C., **Opposition-based multi-objective ant colony optimization framework for sustainable retrofitting: time–cost–energy–risk trade-offs**, 2025, *Asian Journal of Civil Engineering*, 26(5), 2223-2239.

Regaigui S.; Bezoui M.; Moulai M.; Qaisar S.M., **A memetic method for solving portfolio optimization problem under cardinality, quantity, and pre-assignment constraints**, 2025, *Applied Soft Computing*, 175, 113058.

Zhao B.; Zheng D.; Yang C.; Wang S.; Mansurova M.; Jomartova S.; Kunicina N.; Zabasta A.; Beliaev V.; Caiko J.; Grants R., **Design and Optimization of an Internet of Things-Based Cloud Platform for Autonomous Agricultural Machinery Using Narrowband Internet of Things and 5G Dual-Channel Communication**, 2025, *Electronics (Switzerland)*, 14(8), 1672.

Balo F.; Ulutaş A.; Stević Ž.; Boydak H.; Zavadskas E.K., **HYBRID REVIT AND A NEW MCDM APPROACH OF ENERGY EFFECTIVE NURSING-HOME DESIGNED BY NATURAL STONE AND GREEN INSULATION MATERIALS**, 2025, *Journal of Civil Engineering and Management*, 31(4), 318-337.

Lakmayer S.; Danielson M., **Efficient Weight Ranking in Multi-Criteria Decision Support Systems** †, 2025, *Electronics (Switzerland)*, 14(7), 1237.

Cailhier A.; Abi-Zeid I.; Lavoie R.; Marleau-Donais F.; Cerutti J., **Where to plan shared streets: Development and application of a multicriteria spatial decision support tool**, 2025, *European Journal of Operational Research*, 322(2), 665-678.

González-Gallardo S.; Sánchez-Rodríguez M.I.; Ruiz A.B.; Luque M., **Integrating regression and multiobjective optimization techniques to analyze scientific perception**, 2025, *Scientific reports*, 15(1), 4819-.

Tureci-Isik H.; Köksalan M.; Tezcaner-Öztürk D., **Interactive biobjective optimization algorithms and an application to UAV routing in continuous space**, 2025, *Transportation Research Part B: Methodological*, 193, 103162.

Dasdemir E.; Köksalan M.; Tezcaner Öztürk D., **Multi-objective route planning of an unmanned air vehicle in continuous terrain: An exact and an approximation algorithm**, 2025, *European Journal of Operational Research*, 322(3), 960-977.

Joshi S.; Mahanthi B.L.; Pavithra G.; Pokkuluri K.S.; Ninawe S.S.; Sahu R., **Integrating LSTM and CNN for Stock Market Prediction: A Dynamic Machine Learning Approach**, 2025, *Journal of Artificial Intelligence and Technology*, 5, 168-179.

Zhu B.-W.; Feng C.-W.; Xiong L.; Zheng W.-Q.; Wang G.-Q.; Zhang X.; Tzeng G.-H., **Rule Sets for Identifying Conditional Attributes of Campus Green Spaces with Enhanced Mental Restoration Effect**, 2025, *Journal of Urban Planning and Development*, 151(1), 04024069.

Beg I.; Abbas M.; Asghar M.W., **Multi-entropy analysis for mega project contractor selection in q-rung orthopair fuzzy soft set framework**, 2025, *Computational and Applied Mathematics*, 44(1), 152.

Surya A.N.; Vimala J., **Similarity measure for complex non-linear Diophantine fuzzy hypersoft set and its application in pattern recognition**, 2025, *Information Sciences*, 690, 121591.

Pethaperumal M.; Jayakumar V.; Pamucar D.; Rajareega S.; Mariappan T.V., **ENERGY MANAGEMENT POLICY SELECTION IN SMART GRIDS: A CRITIC-CoCoSo METHOD WITH Lq* q-rung ORTHOPAIR MULTI-FUZZY SOFT SETS**, 2025, *Applied Engineering Letters*, 10(1), 35-47.

Shankar M.; Ramu P.; Deb K., **A directed batch growing self-organizing map based niching differential evolution for multimodal optimization problems**, 2025, *Applied Soft Computing*, 172, 112862.

Remo-Diez N.; Mendaña-Cuervo C.; Arenas-Parra M., **Board Capital and CEO Power Configurations to Promote ESG Performance: The Case of the European Banking Industry**, 2025, *Corporate Social Responsibility and Environmental Management*, 32(2), 2815-2834.

Duan Y.; Stević Ž.; Novarić B.; Hashemkhani Zolfani S.; Görçün Ö.F.; Subotić M., **Application of the Fuzzy MCDM Model for the Selection of a Multifunctional Machine for Sustainable Waste Management**, 2025, *Sustainability (Switzerland)*, 17(6), 2723.

Chabbouh M.; Bechikh S.; Mezura-Montes E.; Ben Said L., **Evolutionary optimization of the area under precision-recall curve for classifying imbalanced multi-class data**, 2025, *Journal of Heuristics*, 31(1), 9.

Huang H.; Brusselaers N.; De Smet Y.; Macharis C., **Engaging stakeholders in construction transport policy: A mass-participation framework**, 2025, *Case Studies on Transport Policy*, 19, 101359.

Khajuria R.; Komal; Yazdani M., **Novel Intuitionistic Fuzzy Fault Tree Analysis for Effective Infectious Medical Waste Management**, 2025, *International Journal of Mathematical, Engineering and Management Sciences*, 10(2), 350-367.

Sabry I., **Enhanced strength, ductility, and corrosion resistance of AA6061/AA6082 alloys using Al-SiC matrix reinforcement in dissimilar friction stir welding**, 2025, *International Journal of Advanced Manufacturing Technology*, 138(5), 110033.

Görçün Ö.F.; Chatterjee P.; Aytekin A.; Korucuk S.; Pamucar D., **Strategic analysis of e-trade platforms in automotive spare part sector: A T-Spherical fuzzy perspective**, 2025, *Journal of Industrial Information Integration*, 44, 100782.

Lourenço M.A.; Henriques C.O.; Figueira J.R.; Silva C.S.; Pereira M.A., **A multi-criteria classification approach for assessing energy poverty in the European Union**, 2025, *Energy Economics*, 146, 108539.

Vignon Y.R.; Cyrino Oliveira F.L.; Caiado R.G.G.; Schery C.A.D., **Solar electrification in isolated Amazonian systems: Barriers and mitigation strategies**, 2025, *Renewable and Sustainable Energy Reviews*, 208, 115072.

De Santis M.; Eichfelder G.; Patria D.; Warnow L., **Using dual relaxations in multiobjective mixed-integer convex quadratic programming**, 2025, *Journal of Global Optimization*, 92(1), 159-186.

Dias L.C.; Xidonas P.; Samitas A., **A novel sigma-Mu multiple criteria decision aiding approach for mutual funds portfolio selection**, 2025, *European Journal of Operational Research*, 322(2), 589-598.

Vijayakumar R.; Mahapatra G.S.; Dharmalingam M., **Decision through novel ranking of generalized symmetric pentagonal interval-valued fuzzy criteria for sustainable regional selection**, 2025, *Environment, Development and Sustainability*, 27(4), 118174.

Kong W.; Huiskes M.; Habraken S.J.M.; Astreinidou E.; Rasch C.R.N.; Heijmen B.J.M.; Breedveld S., **'iCycle-pBAO': Automated patient-specific beam-angle selection in proton therapy applied to oropharyngeal cancer**, 2025, *Radiotherapy and Oncology*, 206, 110799.

Torrieri F.; Crisopulli A.; Rossitti M., **Assessing the Feasibility of PPPs for Cultural Heritage Enhancement in UNESCO Sites: The Case of Matera (Italy)**, 2025, *Land*, 14(4), 898.

Pereira V.; Basilio M.P.; Santos C.H.T., **PyBibX – a Python library for bibliometric and scientometric analysis powered with artificial intelligence tools**, 2025, *Data Technologies and Applications*, 59(2), 302-337.

Haseli G.; Yazdani M.; Shaayesteh M.T.; Hajiaghaei-Keshteli M., **Logistic hub location problem under fuzzy Extended Z-numbers to consider the uncertainty and reliable group decision-making**, 2025, *Applied Soft Computing*, 171, 112751.

Silvennoinen J.; Maldonado G.L.; Ruiz A.B.; Ruiz F.; Misitano G.; Miettinen K., **Icons for Software Implementations of Interactive Multiobjective Optimization Methods: A Semantic Distance Study**, 2025, *Journal of Multi-Criteria Decision Analysis*, 32(1), e70010.

Gupta S.; Awasthi N.; Joshi D.K., **An ORESTE Approach based Decision-Making Framework for Renewable Energy Development with Probabilistic Dual Hesitant Fuzzy Information**, 2025, *Journal of Fuzzy Extension and Applications*, 6(1), 14-42.

Momena A.F.; Gazi K.H.; Mondal S.P., **Multi-Criteria Decision Analysis for Sustainable Medicinal Supply Chain Problems with Adaptability and Challenges Issues**, 2025, *Logistics*, 9(1), 31.

Tahiduzzaman M.; Ghosh A.K.; Ura S., **Manufacturing Process Optimization Using Open Data and Different Analysis Methods**, 2025, *Journal of Manufacturing and Materials Processing*, 9(4), 106.

Zhang H.; Zhang D.; Wan Y.; Pan R.; Kou G., **Multiplex network influence maximization based on representation learning method**, 2025, *Applied Soft Computing*, 174, 112956.

Gupta S.; Gupta N.; Kamal M.; Chatterjee P., **Optimizing vendor selection in food supply chains: a goal programming approach using interval type-2 trapezoidal fuzzy numbers**,

2025, *International Journal of System Assurance Engineering and Management*, 16(4), 116396.

Shen S.; Gong Z.; Zhou B.; Słowiński R., **Empathic network learning for multi-expert emergency decision-making under incomplete and inconsistent information**, 2025, *Information Fusion*, 117, 102844.

Xiao H.; Zeng S.; Peng Y.; Kou G., **A simulation optimization approach for weight valuation in analytic hierarchy process**, 2025, *European Journal of Operational Research*, 321(3), 851-864.

Hashemi-Tabatabaei M.; Amiri M.; Keshavarz-Ghorabae M., **An Expected Value-Based Symmetric–Asymmetric Polygonal Fuzzy Z-MCDM Framework for Sustainable–Smart Supplier Evaluation**, 2025, *Information (Switzerland)*, 16(3), 187.

Rahaman M.; Chalishajar D.; Gazi K.H.; Alam S.; Salahshour S.; Mondal S.P., **Fractional Calculus for Type 2 Interval-Valued Functions**, 2025, *Fractal and Fractional*, 9(2), 102.

Tudisco V.; Perotti S.; Eken B.Y.; Aktas E., **Sustainable e-grocery home delivery: An optimization model considering on-demand vehicles**, 2025, *Computers and Industrial Engineering*, 201, 110874.

Nelyubin A.P.; Podinovski V.V., **Approximation of Functions Defined in Tabular Form. II**, 2025, *Computational Mathematics and Mathematical Physics*, 65(4), 689-697.

Arisoy A.A.; Jeevaraj S.; Gokasar I.; Deveci M.; Kadry S.; Liu Z., **Railway prioritized food logistics in developing countries using fuzzy decision making under interval-valued pythagorean fuzzy environment**, 2025, *Applied Soft Computing*, 175, 113066.

Ahmed A.; Kummar K.; Shukla R., **A Two-Warehouse Inventory Model for Green Technology Investment: Deteriorating Items with Selling Price and Carbon Emissions**, 2025, *European Journal of Pure and Applied Mathematics*, 18(2), 5847.

Nasser A.A.; Alghawli A.S.A.; Saleh S.; Elsayed A.A.K., **Health security disparities in the Eastern Mediterranean Region: A comparative analysis using an integrated MCDM and clustering approach**, 2025, *Journal of Biosafety and Biosecurity*, 7(1), 38-51.

Wang G.-Q.; Zhu B.-W.; Wang K.; Li X.-Y.; Xiong L., **Links between cue combinations of physical environments and consumer satisfaction in themed restaurants from a systematic approach–avoidance perspective**, 2025, *International Journal of Hospitality Management*, 126, 104055.

Milinković A.; Brkljač D.; Škorić S.; Stević Ž.; Danilevičius A.; Das D.K., **Evaluation of Potentials for Urban Planning Using the Fuzzy FUCOM-IMF SWARA-Fuzzy OPARA Model**, 2025, *Buildings*, 15(5), 803.

Yadav D.; Ramu P.; Deb K., **Handling objective preference and variable uncertainty in evolutionary multi-objective optimization**, 2025, *Swarm and Evolutionary Computation*, 94, 101860.

Erbey A.; Gündüz C.; Fidan Ü., **Digitalization, Sustainability, and Radical Innovation: A Knowledge-Based Approach**, 2025, *Sustainability (Switzerland)*, 17(7), 2972.

Kadziński M.; Wójcik M.; Ghaderi M., **From investigation of expressiveness and robustness to a comprehensive value-based framework for multiple criteria sorting problems**, 2025, *Omega (United Kingdom)*, 131, 103203.

Özmen A.; Graczyk-Kucharska M.; Szafrański M.; Goliński M.; Weber G.-W.; Gütmen S.; Włodarczak Z.; Çevik A.; Broda M., **Modelling problems in a regional labour market in Poland with MARS and CMARS - supported by optimisation**, 2025, *Engineering Management in Production and Services*, 17(1), 52-65.

Feng Q.; Tong S.; Corrente S.; Zhang X., **Robust multilinear target-based decision analysis considering high-dimensional interactions**, 2025, *European Journal of Operational Research*, 322(3), 920-936.

Rodriguez-Matas A.F.; Ruiz C.; Linares P.; Perez-Bravo M., **How energy strategies are shaped by the correlation of uncertainties**, 2025, *Applied Energy*, 382, 125257.

Gazi K.H.; Biswas A.; Singh P.; Rahaman M.; Maity S.; Mahata A.; Mondal S.P., **A Comprehensive Literature Review of Fuzzy Differential Equations with Applications**, 2025, *Journal of Fuzzy Extension and Applications*, 6(1), 134-161.

Paliwal M.K.; Jakhar S.; Dixit A.; Sharma V., **Technical approaches for enhancing thermal management of hybrid photovoltaic thermal systems: emerging trends and future prospects**, 2025, *International Journal of Thermofluids*, 27, 101267.

Talas R.; Labib A.; Dhesi G., **Optimised resilience measures for supply chain using portfolio selection**, 2025, *Soft Computing*, 29(8), 4259-4273.

Casado R.S.G.R.; Alencar M.H.; de Almeida A.T., **Exploring risk-based portfolio selection with global sensitivity analysis to support strategic decisions in natural gas pipeline networks**, 2025, *Journal of Loss Prevention in the Process Industries*, 94, 105550.

Reyes-Norambuena P.; Martinez-Torres J.; Pinto A.A.; Yazdi A.K.; Hanne T., **A Novel MCDM Approach to Integrating Human Factors into Evacuation Models: Enhancing Emergency Preparedness for Vulnerable Populations**, 2025, *Applied Sciences (Switzerland)*, 15(10), 5420.

Song M.; Stević Ž.; Badi I.; Marinković D.; Lv Y.; Zhong K., **ASSESSING PUBLIC ACCEPTANCE OF AUTONOMOUS VEHICLES USING A NOVEL IRN PIPRECIA – IRN AROMAN MODEL**, 2025, *Facta Universitatis, Series: Mechanical Engineering*, 23(1), 127-145.

Kou G.; Dinçer H.; Yüksel S.; Demir C.; Eti S., **Molecular fuzzy least squares optimization-based decision making with entropy expert weighting for transparent solar panel installation investments**, 2025, *Iranian Journal of Fuzzy Systems*, 22(3), 55-86.

Granda B.; Vitoriano B.; Figueira J.R., **A mathematical programming approach for a wildfire suppression problem**, 2025, *Operational Research*, 25(1), 16.

Almeida V.V.A.; Gomes C.F.S.; Pinochet L.H.C.; dos Santos M., **Prioritization of investment order in Brazil among renewable energy sources: an analysis using the SWARA-MOORA-3NAG method**, 2025, *Journal of Modelling in Management*, 20(2), 620-647.

Ortiz-Munoz D.; Luviano-Cruz D.; Perez-Dominguez L.A.; Rodriguez-Ramirez A.G.; Garcia-Luna F., **Hybrid Fuzzy-DDPG Approach for Efficient MPPT in Partially Shaded Photovoltaic Panels**, 2025, *Applied Sciences (Switzerland)*, 15(9), 4869.

Surya A.N.; Vimala J.; Vizhi M.T., **Bonferroni mean aggregation operators under q-rung linear diophantine fuzzy hypersoft set environment and its application in multi-attribute decision making**, 2025, *International Journal of Information Technology (Singapore)*, 17(2), 1283-1306.

Pereira J.; de Oliveira E.C.B.; Morais D.C.; Costa A.P.C.S.; Alencar L.H., **ELECTRE TRI-C with Hesitant Fuzzy Sets and Interval Type 2 Trapezoidal Fuzzy Numbers Using Stochastic Parameters: Application to a Brazilian Electrical Power Company Problem**, 2025, *International Journal of Fuzzy Systems*, 27(1), 115368.

Mishra A.R.; Pamucar D.; Rani P.; Hezam I.M., **Single-Valued Neutrosophic Distance Measure-Based MEREC-RANCOM-WISP for Solving Sustainable Energy Storage Technology Problem**, 2025, *Cognitive Computation*, 17(2), 87.

Mohammadhosseini Fadafan E.; Vetschera R., **Buyer's choice of a seller using smart contracts**, 2025, *SN Business and Economics*, 5(4), 33.

Caiado R.; Santos R.; Schery C.; Scavarda L.; Garza-Reyes J., **Balancing Priorities: A Configurational Framework to Achieve Strategic Benefits From Sustainable Industry 4.0 Enablers in Operations and Supply Chain**, 2025, *Business Strategy and the Environment*, 34(3), 2934-2963.

Abuasaker W.; Sánchez M.; Nguyen J.; Agell N.; Agell N.; Ruiz F.J., **A Comparative Analysis of European Media Coverage of the Israel–Gaza War Using Hesitant Fuzzy Linguistic Term Sets**, 2025, *Machine Learning and Knowledge Extraction*, 7(1), 8.

Wachowicz T.; Roszkowska E., **How well may the direct linguistic declarations substitute AHP in defining accurate criteria weights?**, 2025, *International Transactions in Operational Research*, 32(2), 1088-1118.

Yamsa-ard S.; Ben Abdelaziz F.; Masri H., **Innovative decision support tools for perishable food supply chain management**, 2025, *Management Decision*, 63(4), 1292-1315.

Löhken L.; Stiglmayr M., **A multi-objective perspective on the cable-trench problem**, 2025, *Journal of Combinatorial Optimization*, 49(4), 55.

Li T.; You J.; Aktas E.; Dong Y.; Yang M., **Risk assessment for digital transformation projects in construction Enterprises: An enhanced FMEA model**, 2025, *Expert Systems with Applications*, 274, 126991.

Pajasmaa J.; Miettinen K.; Silvennoinen J., **Group Decision Making in Multiobjective Optimization: A Systematic Literature Review**, 2025, *Group Decision and Negotiation*, 34(2), 101455.

Karsu Ö.; Elver İ.E.; Kınık T.A., **Finding robustly fair solutions in resource allocation**, 2025, *Omega (United Kingdom)*, 131, 103208.

Kim J.; Qiu R.; Jon J.; Sun M., **Multi-objective programming for multi-period multi-product closed-loop supply chain network design: a fuzzy robust optimization approach**, 2025, *Environment, Development and Sustainability*, 27(5), 100189.

Abdulaleem N.; Cen J.; Das K., **Sufficiency and duality for E-differentiable vector optimization problems under generalized convexity**, 2025, *Hacettepe Journal of Mathematics and Statistics*, 54(1), 125-141.

Batista S.F.A.; Cantelmo G.; Menéndez M.; Antoniou C.; Leclercq L., **Activity-based user equilibrium considering aggregated traffic dynamics emulated using the Macroscopic Fundamental Diagram**, 2025, *Transportation Research Part C: Emerging Technologies*, 171, 104980.

Iurev R.; García-Lapresta J.L.; García-Encina P.A.; Bolado S.; Molinos-Senante M., **Perceptions of waste valorization and hazardousness: A methodological approach based on ordinal proximity measures**, 2025, *City and Environment Interactions*, 26, 100193.

Fidan U., **Basic Statistical Methods in Determining Criteria Weights**, 2025, *International Journal of Information Technology and Decision Making*, 24(4), 1103-1124.

Sawicki P.; Sawicka H., **SIMULATION AND MCDA-BASED FRAMEWORK FOR BORDER CROSSING PROCESS DESIGN WITH STATIC AND DYNAMIC CONTROL OF PASSENGER FLOW**, 2025, *Archives of Transport*, 73(1), 99-129.

Lucas F.F.; Dos Santos M.; Gomes C.F.S., **VALUATION OF BRAZILIAN REAL ESTATE INVESTMENT TRUSTS (REITS) USING THE PSI-COCOSO MULTICRITERIA METHOD**, 2025, *Pesquisa Operacional*, 45, e281684.

Costa S.; Aguiar J.P.; Oliveira M.D.; Gonçalves J.; Ribeiro J.C.; Taborda-Barata L.; Farinha H.; Escada P.; Fernandes S.; Soares-de-Almeida L.; Paiva-Lopes M.J.; Chaves Loureiro C.; Lourinho I.; Fonseca J.A.; Drummond M.; Marinho R.T.; Bana e Costa J.; Vaz Carneiro A.; Bana e Costa C.A., **Type 2 inflammation: a Portuguese consensus using Web-Delphi and decision conferencing (INFLAT2-PT)**, 2025, *Expert Review of Clinical Immunology*, 21(3), 377-391.

Du B.; Sreenivasan A.V.; Sheng M.S.; Ranjitkar P.; Wen L.; Sharp B.; Raith A., **Optimal deployment of dynamic wireless charging infrastructure for battery electric buses—a case study in Auckland, New Zealand**, 2025, *Journal of the Royal Society of New Zealand*, 55(4), 1091-1110.

Vimala J.; Sri S.N.; Kausar N.; Vrioni B.; Pamucar D.; Simic V., **Bipolar linear Diophantine fuzzy EDAS for multi-attribute group decision-making**, 2025, *Journal of Mathematics and Computer Science*, 38(1), 25-44.

Abdel-Basset M.; Mohamed R.; Hezam I.M.; Słowik A., **Optimizing Wind farm layout using a one-by-one replacement mechanism-incorporated gradient-based optimizer**, 2025, *Energy*, 314, 134154.

Juszczuk P.; Krus L., **A New Multicriteria Approach for the Efficiency Measures on the Forex Market**, 2025, *IEEE Access*, 13, 85698-85710.

Garcia J.L.L.; Monroy R.; Hernandez V.A.S.; Deb K., **Beyond Performance: Designing a Super-Resolution Architecture Search Space and a Hybrid Multi-Objective Approach for Neural Architecture Optimization**, 2025, *IEEE Access*, 13, 107187-107203.

Guney E.; Ehrenthal J.; Hanne T., **QUBO Formulations and Characterization of Penalty Parameters for the Multi-Knapsack Problem**, 2025, *IEEE Access*, 13, 47086-47098.

Hajiabadi M.R.; Amlashi R.H.; Rahmani Hosseinabadi A.A.; Hosseinabadi R.; Weber G.-W., **TWO-MACHINE FLOW SHOP TASK SCHEDULING USING A HYBRID GRAVITATIONAL SEARCH ALGORITHM CALLED SAGSA**, 2025, *Journal of Industrial and Management Optimization*, 21(7), 4815-4840.

Sabry I.; Mourad A.H.I.; Elwakil M.; Hewidy A.M., **Multi-Response Optimization of Rotary Electrode EDM Process Parameters for Tungsten Carbide**, 2025, *Management and Production Engineering Review*, 16(1).

Stević Ž.; Karamaşa Ç.; Demir E.; Korucuk S., **Assessing sustainable production under circular economy context using a novel rough-fuzzy MCDM model: a case of the forestry industry in the Eastern Black Sea region**, 2025, *Journal of Enterprise Information Management*, 38(1), 261-291.

Özcan Z.; Caglayan İ.; Kabak Ö.; Kılıç Gül F., **Integrated risk mapping for forest fire management using the analytical hierarchy process and ordered weighted average: a case study in southern Turkey**, 2025, *Natural Hazards*, 121(1), 120858.

Akram J.; Anaissi A.; Akram A.; Singh Rathore R.; Jhaveri R.H., **Adversarial Label-Flipping Attack and Defense for Anomaly Detection in Spatial Crowdsourcing UAV Services**, 2025, *IEEE Transactions on Consumer Electronics*, 71(1), 2163-2174.

Draci W.; Cherfaoui Y.; Moulai M., **GLOBAL OPTIMIZATION ALGORITHM OF A LINEAR FRACTIONAL MULTIPLICATIVE FUNCTION OVER A PARETO-OPTIMAL SET**, 2025, *Journal of Industrial and Management Optimization*, 21(5), 3393-3413.

Venturini S.; De Santis M.; Patracone J.; Schmidt M.; Rinaldi F.; Salzo S., **Relax and penalize: a new bilevel approach to mixed-binary hyperparameter optimization**, 2025, *Transactions on Machine Learning Research*, 2025-February, 1-27.

Sanyal A.; Biswas S.; Sur S., **AN INTEGRATED FULL CONSISTENT LOPCOW-EDAS FRAMEWORK FOR MODELLING CONSUMER DECISION MAKING FOR ORGANIC FOOD SELECTION**, 2025, *Yugoslav Journal of Operations Research*, 35(2), 331-364.

Sreekumar; Behera S.R., **Selection of project manager in a large-scale enterprise: an analytical hierarchy process approach**, 2025, *International Journal of Applied Management Science*, 17(1), 72-93.

Rey-Paredes M.; Perez C.J.; Mateos-Caballero A., **Time Series Classification of Raw Voice Waveforms for Parkinson's Disease Detection Using Generative Adversarial Network-Driven Data Augmentation**, 2025, *IEEE Open Journal of the Computer Society*, 6, 72-84.

Sawicki P.; Sawicka H.; Karkula M.; Zajda K., **Combined Rough Sets and Rule-Based Expert System to Support Environmentally Oriented Sandwich Pallet Loading Problem**, 2025, *Energies*, 18(2), 268.

Ravanos P.; Karagiannis G., **On value efficiency analysis and cone-ratio data envelopment analysis models**, 2025, *Journal of Productivity Analysis*, 63(1), 49-68.

Mallat N.; Bragge J.; Rossi M., **The Sky Is the Limit: A Review of Drone Research and Future Agenda for the IS Field**, 2025, *Communications of the Association for Information Systems*, 56.

Qiu R.; Yuan M.; Sun M.; Fan Z.-P.; Xu H., **Optimizing omnichannel retailer inventory replenishment using vehicle capacity-sharing with demand uncertainties and service level requirements**, 2025, *European Journal of Operational Research*, 320(2), 417-432.

Demir G.; Bouraima M.B.; Badi I.; Stević Ž.; Das D.K., **Identification of Industrial Occupational Safety Risks and Selection of Optimum Intervention Strategies: Fuzzy MCDM Approach**, 2025, *Mathematics*, 13(2), 301.

Frej E.A.; Martins C.L.; da Silva L.B.L.; dos Santos Neto J.B.S.; de Almeida A.T., **A Portfolio Selection Model for Planning Natural Gas Smart Energy Hubs with a Multicriteria Benefit-to-Cost Ratio-Based Approach**, 2025, *EURO Journal on Decision Processes*, 13, 100060.

Muneeb F.M.; Karbassi Yazdi A.; Hanne T.; Mironko A., **Small and medium-sized enterprises in emerging markets and foreign direct investment: an integrated multicriteria decision-making approach**, 2025, *Applied Economics*, 57(25), 3327-3344.

Burgos Pereira Y.; Pérez-Domínguez L.; Ramos Franco D.; Ramos Gómez L., **Smart strategies for innovation and productivity in the Columbian maintenance industry: an experience report**, 2025, *Journal of Decision Systems*, 34(1), 2458879.

Berrachedi K.; Moulai M.; Chaiblaine Y., **LINEAR FRACTIONAL OPTIMIZATION FOR INTEGER INDEFINITE QUADRATIC FRACTIONAL PROBLEM**, 2025, *Journal of Industrial and Management Optimization*, 21(7), 5114-5131.

Vimala J.; Surya A.N.; Kausar N.; Pamucar D.; Kadry S.; Kim J., **Hybrid decision support system disaster management: application of lattice ordered q-rung linear Diophantine fuzzy hypersoft sets**, 2025, *PeerJ Computer Science*, 11, e2927.

Suresh A.; Deb K., **Identifier spaces for representing Pareto-optimal solutions in multi-objective optimization and decision-making**, 2025, *Engineering Optimization*, 57(1), 234-260.

Li Y.; Saracoglu B.O., **Location and investment factors of hydropower plants**, 2025, *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, 47(1), 10208-10226.

Zheng Y.-Y.; Lin J.-Y.; Zhao L.-C.; Xiong L.; Zhu B.-W.; Tzeng G.-H., **Rethinking urban spatial resource allocation during public health emergencies: assessing comfortable quarantine environment in Guangzhou Hotels**, 2025, *Journal of Asian Architecture and Building Engineering*, 24(3), 2017-2033.

Pandiya R.; Ahdika A.; Khomsah S., **A NOVEL GLOBAL OPTIMIZATION MODEL FOR n-DIMENSIONAL CENTER-BASED CLUSTERING PROBLEM AND ITS APPLICATION TO EARTHQUAKE INVESTIGATION**, 2025, *Advanced Mathematical Models and Applications*, 10(1), 43-60.

Tang X.; Xiao H.; Kou G.; Xiang Y., **Joint Optimization of Condition-Based Maintenance and Spare Parts Ordering for a Hidden Multi-State Deteriorating System**, 2025, *IEEE Transactions on Reliability*, 74(2), 2503-2514.

Abdel-Basset M.; Mohamed R.; Salam A.; Sallam K.M.; Hezam I.M.; Radwan I., **Intelligent Joint Optimization of Deployment and Task Scheduling for Mobile Users in Multi-UAV-Assisted MEC System**, 2025, *International Journal of Intelligent Systems*, 2025(1), 7224877.

Maiti S.K.; Roy S.K.; Weber G.W., **GAUSSIAN TYPE-2 FUZZY COOPERATIVE GAME BASED ON REDUCTION METHOD: AN APPLICATION TO MULTI-DRUG RESISTANCE PROBLEM**, 2025, *Journal of Dynamics and Games*, 12(3), 215-242.

Romero J.C.; Linares P.; Rodriguez-Matas A.F.; Perez-Bravo M., **Illustrating the conflicts between energy poverty and decarbonization in the energy transition. A case example in Spain**, 2025, *Energy*, 314, 134204.

Kirlik G.; Sayın S., **Generating representative sets for multiobjective discrete optimization problems with specified coverage errors**, 2025, *Computational Optimization and Applications*, 90(1), 104872.

Gülmez B., **A novel hybrid MCDM framework combining TOPSIS, PROMETHEE II, and VIKOR for peach drying method selection**, 2025, *Current Research in Food Science*, 10, 101034.

Srikant G.; Niharika V.; Aquil A.; Prasenjit C.; Seifedine K., **SUPPLIER SELECTION UNDER CIRCULAR ECONOMY: AN INTEGRATED ENTROPY-EDAS METHOD**, 2025, *Yugoslav Journal of Operations Research*, 35(2), 283-311.

Ashraf S.; Akram M.; Jana S.; Kim J.; Hezam I.M.; Jana C., **Constructing a knee osteoarthritis transplant via the neutrality aggregation operators under spherical fuzzy Z-numbers framework**, 2025, *Heliyon*, 11(1), e41288.

Shaayesteh M.T.; Yazdani M.; Ariza-Montes A.; Aman-Ullah A.; Kim W., **Impact of sustainable tourists' behavior on the sustainability status of coastal tourism: the role of artificial intelligence**, 2025, *Journal of Travel and Tourism Marketing*, 42(4), 510-533.

Santana Tovar D.; Torabi Moghadam S.; Lombardi P., **Shaping Sustainable Practices in Italy's Construction Industry: An ESG Indicator Framework**, 2025, *Sustainability (Switzerland)*, 17(3), 1341.

Pellerey V.; Torabi Moghadam S.; Lombardi P., **A systematic review of justice integration to climate resilience: Current trends and future directions**, 2025, *Urban Climate*, 59, 102250.

Nasser A.A.; Alghawli A.S.A.; Saleh S.; Elsayed A.A.K., **Income-Based analysis of health security in Western Asia through an integrated GHSI, MCDM, and Clustering Model**, 2025, *F1000Research*, 14, 43.

Palanikumar M.; Kausar N.; Stević Ž.; Zolfani S.H., **Diophantine spherical vague sets and their applications for micro-technology robots based on multiple-attribute decision-making**, 2025, *Engineering Applications of Artificial Intelligence*, 139, 109447.

Aytekin A.; Korucuk S.; Akyurt H.; Doğan H.; Stević Ž.; Zavadskas E.K., **Evaluation of metaverse-based digital transformation strategies via an interval-valued q-rung orthopair fuzzy methodology**, 2025, *Applied Soft Computing*, 169, 112566.

Bonilla Solís I.D.; Pérez-Domínguez L.A.; Ramírez Delgado R.P.; Cordero Díaz M.C., **Web Application Development for TODIM Method Automation and Alternatives Evaluation; [Desarrollo de Aplicación Web para la Automatización del Método TODIM y Evaluación de Alternativas]**, 2025, *Data and Metadata*, 4, 492.

Huang H.; Burgherr P.; Macharis C., **A collaborative group decision-support system: the survey based multi-actor multi-criteria analysis (MAMCA) software**, 2025, *Journal of the Operational Research Society*, 76(5), 844-865.

Holguin Avila A.; Pérez Domínguez L.A.; Romero Lopez R.; Cruz D.L., **The role of multicriteria decision making in the supply chain: Literature review; [El rol de la toma de Decisiones Multicriterio en la Cadena de Suministro: Revisión de literatura]**, 2025, *Data and Metadata*, 4, 619.

Santiago B.D.S.; Scavarda L.F.; Gusmão Caiado R.G.; Santos R.S.; Mattos Nascimento D.L.D., **Corporate social responsibility and circular economy integration framework within sustainable supply chain management: Building blocks for industry 5.0**, 2025, *Corporate Social Responsibility and Environmental Management*, 32(1), 269-290.

Maristany de las Casas P.; Sedeño-Noda A.; Borndörfer R., **New Dynamic Programming algorithm for the Multiobjective Minimum Spanning Tree problem**, 2025, *Computers and Operations Research*, 173, 106852.

Solares E.; Fernandez E.; Coello Coello C.A.; Segura Lozano X.; Moreno-Cepeda R.; Diaz R., **A Comprehensive System to Support Decision Making in Highly Complex Project Portfolio Situations**, 2025, *IEEE Access*, 13, 38115-38132.

Yazdani M.; Ye C.; Shaayesteh M.T.; Zaraté P., **Decision making model for waste management: fuzzy group AHP-CoCoSo**, 2025, *International Journal of Production Management and Engineering*, 13(1), 77-92.

Rodrigues M.V.G.; dos Santos M.; Gomes C.F.S., **Selection of helicopters for offshore service using three multi-criteria decision analysis methods: AHP-TOPSIS-2N, THOR 2 and Gaussian AHP-TOPSIS-2N**, 2025, *Journal of Control and Decision*, 12(3), 434-448.

Hamid A.A.; Eshag E.A.E.; Awashreh R.; Musa A.G.A.N., **Unveiling manufacturing delays causes and implications in Sudanese industries: A study on manufacturing sector**, 2025, *International Journal of Innovative Research and Scientific Studies*, 8(1), 1215-1223.

Antit A.; Jaoua A.; Layeb S.B.; Triki C., **Pre-auction optimization for the selection of shared customers in the last-mile delivery**, 2025, *Annals of Operations Research*, 344(2), 100087.

Treană S.; Ciontescu M.; Laha V.; Shi F., **CHARACTERIZATION AND EXISTENCE RESULTS OF SOLUTIONS IN NON-CONVEX CONTROLLED MINIMIZATION MODELS**, 2025, *Annals of the Academy of Romanian Scientists: Series on Mathematics and its Applications*, 17(1), 67-94.

Singh G.D.; Tripathi V.; Dumka A.; Yang T.; Rathore R.S., **Optimizing Controller Placement in Software Defined Networking: A Capacitated and Latency-Aware Approach**, 2025, *Journal of Communications*, 20(3), 272-281.

Shavazipour B.; Kwakkel J.H.; Miettinen K., **Let decision-makers direct the search for robust solutions: An interactive framework for multiobjective robust optimization under deep uncertainty**, 2025, *Environmental Modelling and Software*, 183, 106233.

Cengiz Toklu M.; Candan G., **How sustainable are agricultural practices in European Union countries? A spherical fuzzy logic based evaluation**, 2025, *International Journal of Sustainable Development and World Ecology*, 32(1), 49-64.

Pellerey V.; Torabi Moghadam S., **A place-based framework for assessing the effectiveness of inclusive climate actions for nature-based solutions in cities**, 2025, *Journal of Cleaner Production*, 486, 144566.

Ramanathan U.; Ramanathan R.; Balakrishnan A.S.; Hermens I., **The link between sustainability initiatives at firm and supply chain levels: The mediating role of involvement of partners**, 2025, *Sustainable Development*, 33(1), 1284-1297.

Dziczkowski G.; Probierz B.; Juszczuk P.; Stefański P.; Jach T.; Głownia S.; Kozak J., **Automated Tree Detection Using Image Processing and Multisource Data**, 2025, *Applied Sciences (Switzerland)*, 15(2), 667.

Abou-El-Enien T.; Abo-Elnaga Y.; Mohammad K., **TOPSIS FOR MULTIPLE OBJECTIVE PROGRAMMING WITH ROUGH DECISION SET**, 2025, *Yugoslav Journal of Operations Research*, 35(1), 113-134.

Bazgan C.; Kager J.; Thielen C.; Vanderpooten D., **A general label setting algorithm and tractability analysis for the multiobjective temporal shortest path problem**, 2025, *Networks*, 85(1), 76-90.

Mukherjee A.K.; Maity G.; Jablonsky J.; Roy S.K.; Weber G.W., **Multi-objective sustainable inventory model with shortages and radio frequency identification under uncertain environment**, 2025, *International Journal of Systems Science: Operations and Logistics*, 12(1), 2470917.

Dutra F.; Diaz Schery C.A.; Caiado R.G.G.; Congro M.; Corseuil E.T.; Tavares Thomé A.M., **From Pre-design to Operation: A Scoping Review and Bibliometric Analysis of Productivity Metrics Using BIM in Building Projects**, 2025, *Open Construction and Building Technology Journal*, 19, e18748368379847.

Kreibich H.; Sivapalan M.; AghaKouchak A.; Addor N.; Aksoy H.; Arheimer B.; Arnbjerg-Nielsen K.; Vail-Castro C.; Cudennec C.; Madruga de Brito M.; Di Baldassarre G.; Finger D.C.; Fowler K.; Knoben W.; Krueger T.; Liu J.; Macdonald E.; McMillan H.; Mendiondo E.M.; Montanari A.; Muller M.F.; Pande S.; Tian F.; Viglione A.; Wei Y.; Castellarin A.; Loucks D.P.; Oki T.; Polo M.J.; Savenije H.; Van Loon A.F.; Agarwal A.; Alvarez-Garreton C.; Andreu A.; Barendrecht M.H.; Brunner M.; Cavalcante L.; Cavus Y.; Ceola S.; Chaffe P.; Chen X.; Coxon G.; Dandan Z.; Davary K.; Dembélé M.; Dewals B.; Frolova T.; Gain A.K.; Gelfan A.; Ghoreishi M.; Grabs T.; Guan X.; Hannah D.M.; Helmschrot J.; Höllermann B.; Hounkpe J.; Koebele E.; Konar M.; Kratzert F.; Lindersson S.; Llasat M.C.; Matanó A.; Mazzoleni M.; Mejia A.; Mendoza P.; Merz B.; Mukherjee J.; Nasiri Saleh F.; Nlend B.; Nonki R.M.; Orieschnig C.; Papagiannaki K.; Penny G.; Petrucci O.; Pimentel R.; Pool S.; Ridolfi E.; Rusca M.; Sairam N.; Sankaran Namboothiri A.; Sarmento Buarque A.C.; Savelli E.; Schoppa L.; Schröter K.; Scolobig A.; Shafiei M.; Sikorska-Senoner A.E.; Smigaj M.; Teutschbein C.; Thaler T.; Todorovic A.; Tootoonchi F.; Tootoonchi R.; Toth E.; van Nooijen R.; Vanelli F.M.; Vásquez N.; Walker D.W.; Wens M.; Yu D.J.; Zarei H.; Zhou C.; Blöschl G., **Panta Rhei: a decade of progress in research on change in hydrology and society**, 2025, *Hydrological Sciences Journal*, 70(7), 1210-1236.

Paul A.; Pervin M.; Pinto R.V.; Roy S.K.; Maculan N.; Weber G.W., **A SUSTAINABLE ECONOMIC PRODUCTION QUANTITY MODEL WITH REMANUFACTURING OF RETURNED PRODUCT**, 2025, *Journal of Industrial and Management Optimization*, 21(5), 4003-4024.

Yang T.; Sun R.; Rathore R.S.; Baig I., **Enhancing Cybersecurity and Privacy Protection for Cloud Computing-Assisted Vehicular Network of Autonomous Electric Vehicles: Applications of Machine Learning**, 2025, *World Electric Vehicle Journal*, 16(1), 14.

Bollaert H.; Palanetić M.; Cornelis C.; Greco S.; Słowiński R., **FRRI: A novel algorithm for fuzzy-rough rule induction**, 2025, *Information Sciences*, 686, 121362.

Sivakumar R.; Prasad K.; Pokkuluri K.S.; Satish Mehar Kumar K.; Preethi S.; Lakshmanan S.A.; Swapna B.; Nayak B.B., **Augmented and Virtual Reality based Human Resource Management and Its Impact on Organizational Sustainability**, 2025, *WSEAS Transactions on Business and Economics*, 22, 1034-1060.

Santos D.S.; Callefi M.H.B.M.; Ianda T.F.; da Silva Calixto E.E.; Pereira G.A.G.; Toro J.C.S.; Alzate C.A.C.; Pessoa F.L.P.; de Araújo Kalid R., **Small and medium-scale biorefineries: biomass quantification and its bioeconomic potential in the Southern Coastal Territory of Bahia**, 2025, *Environmental Science and Pollution Research*, 32(5), 2726-2746.

manusha S.; Varsha N.; Varshini R.; Sivamani Y.; Pokkuluri K.S.; Elayaperumal S., **Altered microbiome influence on the enteric neuromuscular system in amyotrophic lateral sclerosis (ALS)**, 2025, *International Review of Neurobiology*, 180, 95-123.

Zeitrag Y.; Figueira J.R., **A novel machine-learning rolling horizon heuristic for dynamic lot-sizing and job shop scheduling problems**, 2025, *International Journal of Production Research*, 63(12), 4563-4589.

Chintalapati P.V.; Babu G.R.; Sree P.K.; Bellapukonda P.; Kuma K.S.; Ramana C.V., **HIGH ACCURACY CLASSIFICATION OF PARKINSON'S DISEASE DETECTION USING RNN-GRAFH-LSTM**, 2025, *Proceedings on Engineering Sciences*, 7(1), 309-318.

Antczak T.; Laha V.; Singh H.N., **PARAMETRIC CHARACTERIZATION OF APPROXIMATE QUASI SOLUTIONS IN THE CLASS OF QUASIDIFFERENTIABLE MULTIOBJECTIVE FRACTIONAL PROGRAMMING PROBLEMS**, 2025, *Journal of Industrial and Management Optimization*, 21(6), 4670-4694.

Peng C.; Kou G.; Peng Y., **Default Prediction for Wholesale and Retail Small and Medium-Sized Enterprises Using Loan Transaction and Market Evaluation Data**, 2025, *Emerging Markets Finance and Trade*, 61(7), 2164-2183.

Wakchaure V.; Pawase R., **Analysis of recent trends and developments in IoT-based onion storage monitoring systems: A systematic review**, 2025, *International Journal on Smart Sensing and Intelligent Systems*, 18(1), 20250013.

Abdel-Basset M.; Mohamed R.; Hezam I.M.; Sallam K.M.; Alshamrani A.M.; Hameed I.A., **Artificial intelligence-based optimization techniques for optimal reactive power dispatch problem: a contemporary survey, experiments, and analysis**, 2025, *Artificial Intelligence Review*, 58(1), 2.

Gomez Y.; Rios J.; Rios Insua D.; Vila J., **Forecasting adversarial actions using judgment decomposition-recomposition**, 2025, *International Journal of Forecasting*, 41(1), 76-91.

Zacharaki K.; Prat-i-Pubill Q.; Nguyen J.; Agell N.; Agell N., **Comparing food waste interests and environmental concerns in young adults: A qualitative reasoning approach**, 2025, *Cognitive Systems Research*, 89, 101318.

4.4 Conference papers

Canesi R.; D'Alpaos C.; Marella G.; Romagnolo D.; Turrini U., **Unlocking Energy Efficiency in the Italian Public Housing Legacy: A Typological Blueprint for Cost-Effective Retrofitting**, 2026, *Lecture Notes in Computer Science*, 15893 LNCS, 55-72.

Lakmayer S.; Danielson M., **Distribution Variance for Surrogate Weights in Multi-criteria Decision Analysis**, 2026, *Lecture Notes in Computer Science*, 15706 LNAI, 209-224.

Rossitti M.; Torrieri F., **Territorial Inequalities in Adaptive Reuse Opportunities: Evidence from Lombardy Region (Italy)**, 2026, *Lecture Notes in Computer Science*, 15889 LNCS, 216-231.

Ahmadi S.; Raith A.; Tack G.; Jalili M., **Resource Constrained Pathfinding with Enhanced Bidirectional A* Search**, 2025, *Proceedings of the AAAI Conference on Artificial Intelligence*, 39(25), 26878-26885.

Bollaert H.; Cornelis C.; Palanetić M.; Greco S.; Śłowiński R., **Optimising the Attribute Order in Fuzzy Rough Rule Induction**, 2025, *Lecture Notes in Computer Science*, 15708 LNAI, 254-268.

Bera K.; Satapathy S., **Challenges of Sustainable Urban Planning in Odisha (India): Using the OCRA Method**, 2025, *Lecture Notes in Mechanical Engineering*, 555-564.

Priyadarshi R.; Chinnapurapu N.R.; Rawat P.; Yang T.; Rathore R.S., **Optimizing Wireless Sensor Network Node Placement Using Bacterial Foraging Optimization**, 2025, *Communications in Computer and Information Science*, 2260, 178-187.

Magagnini M.; Carrizosa E.; De Leone R., **Nearest Neighbors Counterfactuals**, 2025, *Lecture Notes in Computer Science*, 15508 LNCS, 193-208.

Kojima E.H.; de Andrade G.C.; de Oliveira L.D.A.; Junior E.L.P.; dos Santos M.; Gomes C.F.S.; Pedrozo D.A.; de Azevedo Junior C.M., **Framework Proposal for Access to Rural Credit Through the AHP-Gaussian Method**, 2025, *Lecture Notes in Networks and Systems*, 1248 LNNS, 511-520.

Salas-Molina F.; Pla-Santamaría D.; García-Bernabeu A.; Reig-Mullor J., **Estimation Windows in Hierarchical Risk Parity Methods for Portfolio Selection**, 2025, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 14779 LNCS, 42-55.

Lakmayer S.; Danielson M., **Stability of Surrogate MCDA Weights Under Different Assumptions on Value Distributions**, 2025, *Lecture Notes in Business Information Processing*, 553, 68-81.

Ferreira E.B.; Roselli L.R.P.; de Almeida A.T., **Examining Interface Preferences in a Decision Support System Using Eye-Tracking**, 2025, *Lecture Notes in Business Information Processing*, 546 LNBIP, 59-75.

Elarbi M.; Bechikh S.; Coello Coello C.A., **Adaptive Normal-Boundary Intersection Directions for Evolutionary Many-Objective Optimization with Complex Pareto Fronts**, 2025, *Lecture Notes in Computer Science*, 15512 LNCS, 132-147.

Lahande P.; Kaveri P.; Singh H.; Sehra S.S.; Saini J.R., **EM-ACO-ARM: An Enhanced Multiple Ant Colony Optimization Algorithm for Adaptive Resource Management in Cloud Environment**, 2025, *Procedia Computer Science*, 252, 796-805.

Van den Bosch M.M.; Montalbano C.; Dornberger R.; Hanne T., **Evolutionary, Bayesian, and Quasi-Monte Carlo Hyperparameter Tuning**, 2025, *Smart Innovation, Systems and Technologies*, 431, 555-567.

Babu G.R.; Chintalapati P.V.; Sree P.K.; Satish Kumar K.; Asha A.V.S.; Maneesha B., **A Secure and Efficient Cloud Storage System Using Advanced Encryption Standard Algorithm for Data Protection**, 2025, *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNCS*, 598 LNCS, 72-83.

Dutra F.S.; Araujo B.M.; Santos R.S.; Caiado R.G.G.; Thomé A.M.T., **Wave of Change: Sustainable Fuel Selection in Maritime Operations**, 2025, *Springer Proceedings in Mathematics and Statistics*, 483, 395-407.

Bekir A.; Larraga G.; Miettinen K., **Can LIME Make Interactive Multiobjective Optimization Methods Explainable?**, 2025, *2025 IEEE Symposium on Trustworthy, Explainable and Responsible Computational Intelligence, CITREx 2025*.

De Moura Pereira D.A.; Diniz B.P.; Dos Santos M.; Simoes Gomes C.F.; Roberto Pereira F.R.; De Araujo Costa A.P.; De Britto Lyra Moura G.P.B., **Predictive Maintenance and Smart Sensors Aiming Sustainability: A Perspective from a Bibliometric Analysis**, 2025, *Procedia Computer Science*, 252, 81-89.

Yadav D.; Ramu P.; Deb K., **Reliability-Based MCDM Using Objective Preferences Under Variable Uncertainty**, 2025, *Lecture Notes in Computer Science*, 15513 LNCS, 225-240.

Gupta P.; Pratihar D.K.; Deb K., **A Comparative Study of Pareto Front of Optimal Solution Set for NAO Robot's Gait Optimization Using the Dominance Move Indicator Based on Mixed Integer Programming**, 2025, *Lecture Notes in Mechanical Engineering*, 427-435.

Artan M.S.; Sahin İ., **A Comparative Analysis of Train Delay Prediction Models for Markov Chains**, 2025, *Transportation Research Procedia*, 82, 822-835.

Guney E.; Ehrenthal J.; Hanne T., **Quantum Approaches to the 0/1 Multi-Knapsack Problem: QUBO Formulation, Penalty Parameter Characterization and Analysis**, 2025, *International Conference on Agents and Artificial Intelligence*, 1, 815-823.

Sanyal A.; Biswas S.; Guha S., **An Intuitionistic Fuzzy Full Consistency Method for Analysing Green Buying Behaviour**, 2025, *Springer Proceedings in Business and Economics*, 283-310.

Wachowicz T.; Roszkowska E., **Evaluating the eNego System: A Dual Perspective on Subjective Acceptation and Objective Scoring System Accuracy**, 2025, *Lecture Notes in Business Information Processing*, 553, 94-107.

de Souza P.H.G.; Monteiro N.J.; da Costa S.E.G.; Frej E.A., **Selection of Digital Technologies for Energy Management: A Group Decision Approach Based on PROMETHEE-ROC**, 2025, *Lecture Notes in Business Information Processing*, 553, 53-67.

Yakoubi G.; Ahabchane C.; Layeb S.B., **On Solving the Physicians Scheduling Problem at an Emergency Department: A Case Study from Canada**, 2025, *Communications in Computer and Information Science*, 2204, 311-335.

Saini B.S.; Singh H.K.; Shavazipour B.; Miettinen K., **An Efficient Iterative Approach for Uniformly Representing Pareto Fronts**, 2025, *Lecture Notes in Computer Science*, 15513 LNCS, 241-256.

de Oliveira P.L.; Moreira M.Â.L.; de Araújo Costa I.P.; de Moura Pereira D.A.; Gomes C.F.S.; dos Santos M., **Human Resources Selection Through the PSI-SPOTIS Hybrid Modelling: Multi-criteria Analysis of Sellers for Technological Market**, 2025, *Lecture Notes in Networks and Systems*, 1248 LNNS, 445-459.

Santoshkumar B.; Deb K., **A Mixed-Fidelity Evaluation Algorithm for Efficient Constrained Multi- and Many-Objective Optimization: First Results**, 2025, *Lecture Notes in Computer Science*, 15513 LNCS, 147-162.

Tadhani P.; Sarda J.; Thakkar A.; Padhiar S.; Yang T.; Rathore R.S., **Quantum Cryptography for Secure IoT Networks: Implementing the BB84 Protocol**, 2025, *Lecture Notes in Networks and Systems*, 1293, 327-341.

Abel E.; Siraj S., **Fairness and Trust in Data-Driven Decisions: Analyzing Discrepancies in Ordinal Decisions**, 2025, *2025 IEEE Symposium on Trustworthy, Explainable and Responsible Computational Intelligence, CITREx 2025*.

Boutaib S.; Elarbi M.; Bechikh S.; Coello C.A.C.; Ben Said L., **Cross-Project Code Smell Detection as a Dynamic Optimization Problem: An Evolutionary Memetic Approach**, 2025, *2025 IEEE Congress on Evolutionary Computation, CEC 2025*.

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.

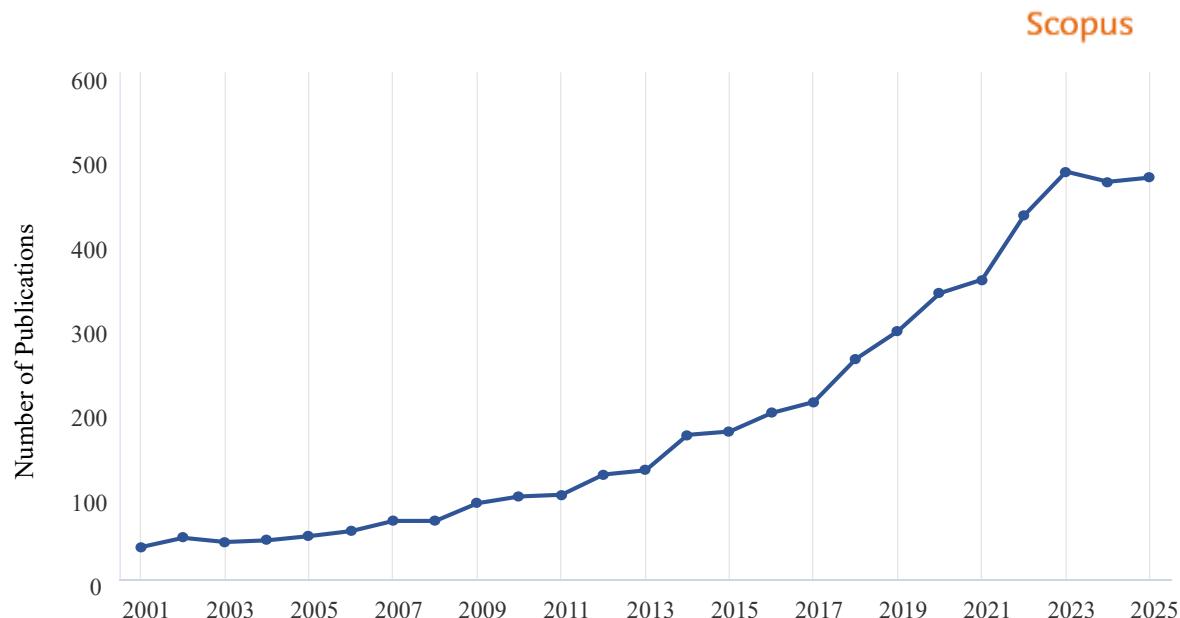


Figure 1 Number of publications per year (2001-2025)

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.

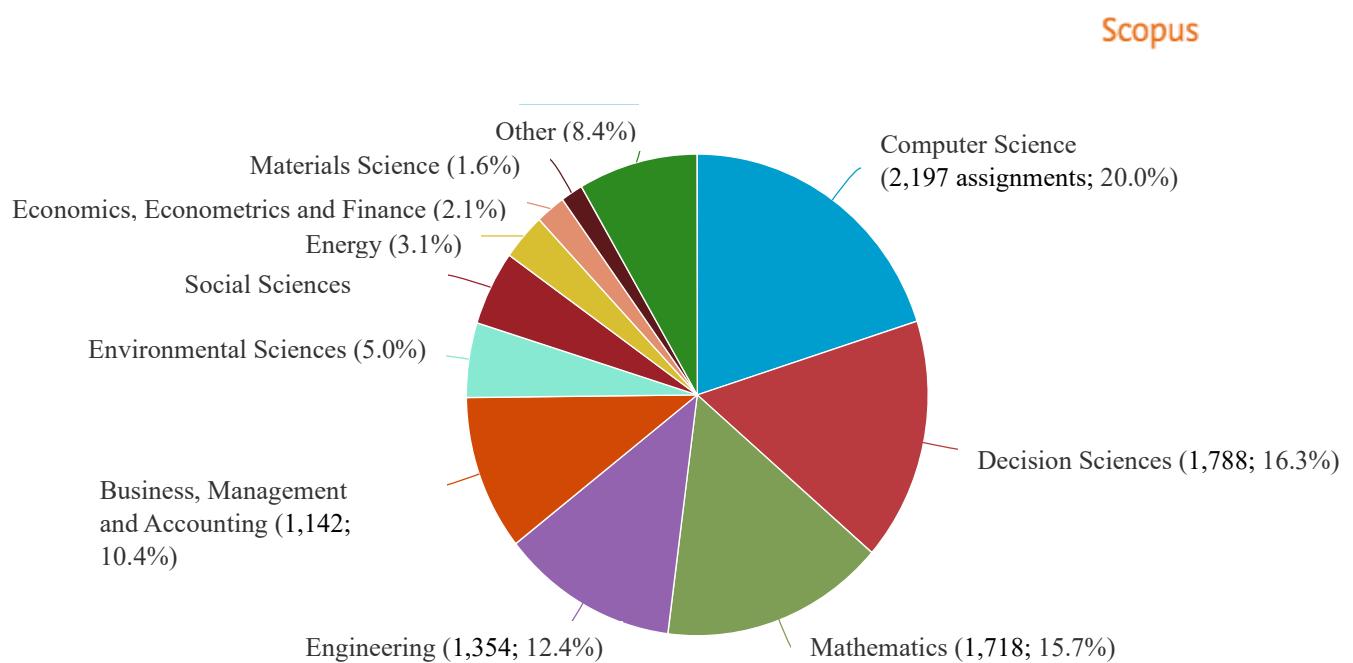


Figure 2 Disciplinary profile

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).

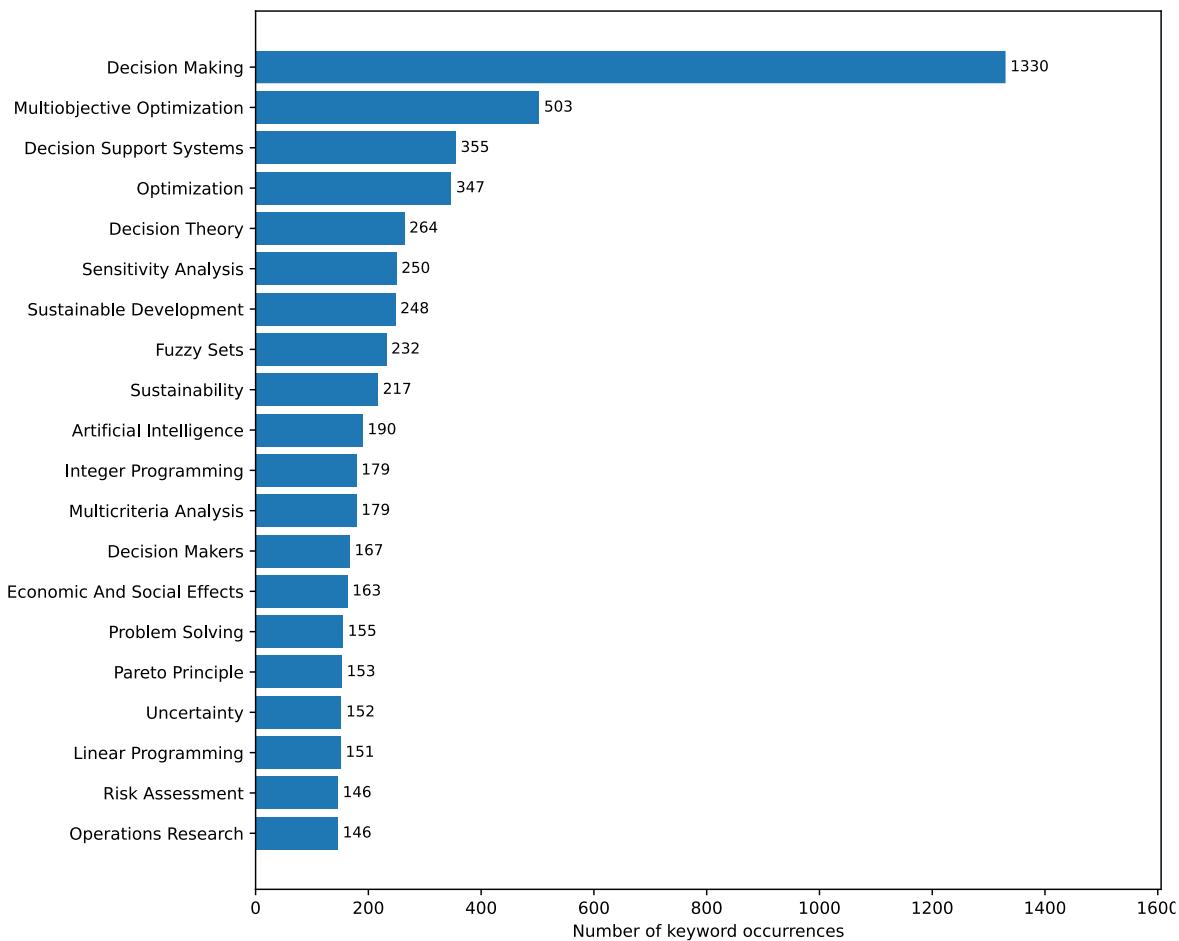


Figure 3 Top 20 author keywords

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' ORCIDs. The choropleth map reveals a broad geographic reach, highlighting significant research activity across Europe, Asia, the Americas, Africa, and Oceania.

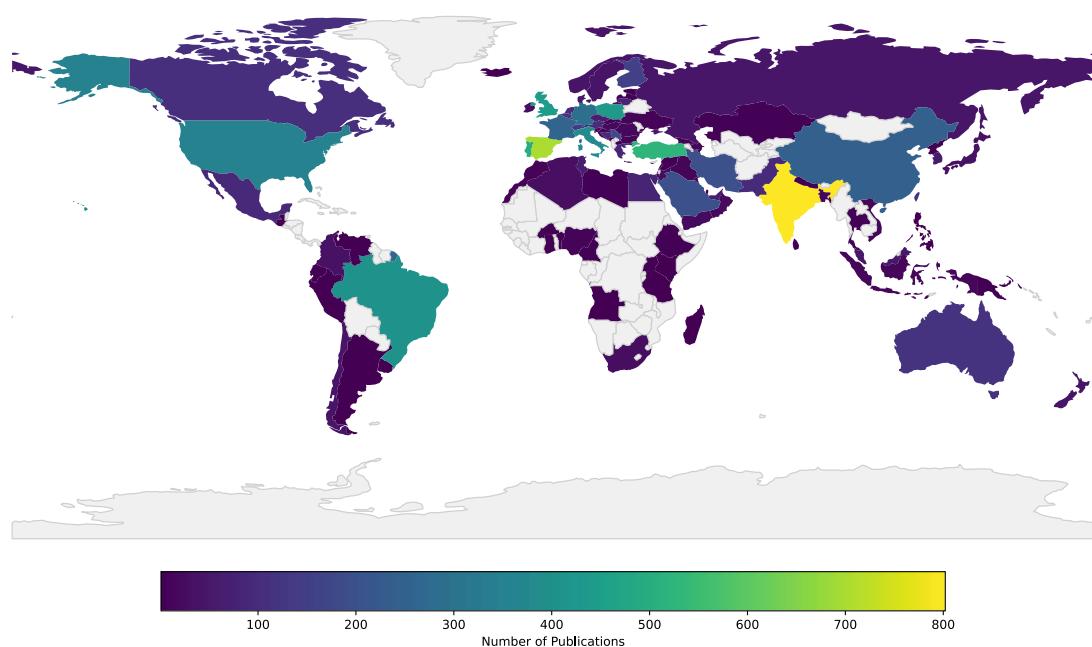


Figure 4 Geographical distribution of Scopus-indexed journal publications (2001-2025) by country for society members who provided ORCID identifiers; countries with brighter yellow tones indicate higher publication counts, while darker purple tones indicate lower publication counts, and grey countries 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 Gülsah 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).