

International Society on Multiple Criteria Decision Making



E-News • 2025 • Issue 2 (September)

Revised edition: updated in November 2025



Contents

Letter from the President	2
1 Society News	4
1.1 28 th International Conference on Multiple Criteria Decision Making in Wuppertal, Germany, May 2026*	4
1.2 2026 EURO PhD Summer School on MCDA/MCDM	5
1.3 Call for Nominations: Awards of the International Society on MCDM 2026	7
1.4 Call for Application: MCDM Doctoral Dissertation Award 2026.....	8
1.5 Full Membership in the Science Academy Society of Turkey.....	9
1.6 IFORS Fellow Award 2025.....	9
1.7 International Society on MCDM Website Renewal.....	12
2 Upcoming Events, Call for Papers, and Other News.....	13
2.1 Information about the INFORMS Section on MCDM.....	13
2.2 EURO Working Group on Multiple Criteria Decision Aiding	14
2.3 Special Issue: Multi-objective Programming, Journal of Multi-Criteria Decision Analysis	15
2.4 Multi-Objective Decision Making Workshop 2025.....	16
2.5 The 24 th Conference of the International Federation of Operational Research Societies (IFORS).....	18
3 Past Conferences, Workshops, and Other News.....	19
3.1 EURO 2025 MCDM Highlights	19
4 New Books/Publications	22
4.1 Books.....	22
4.2 Book chapters.....	22
4.3 Journal papers.....	23
4.4 Conference papers	45
5 Imprints	49

*Includes important updates regarding the conference information.

Letter from the President

Dear Colleagues and Friends,

I hope this message finds you well and that you had the opportunity to enjoy a restorative summer vacation, whether through time with family, travel, or simply the chance to recharge.

As we turn to the coming months, I am delighted to share several important updates from our Society:



MCDM 2026 Conference

Our flagship conference will take place **at the University of Wuppertal in Germany, in 2026**. This promises to be an inspiring event, both scientifically and culturally, offering an opportunity to connect with colleagues from around the world in a vibrant and historic setting. Please mark your calendars —further details regarding dates, program, and submissions will follow soon. The detailed announcement is available in this issue of our Newsletter.

MCDM Summer School 2026 in Delft

The next **MCDM Summer School** will be hosted in **Delft, the Netherlands, in 2026**. Summer schools remain a cornerstone of our Society, offering doctoral students and early-career researchers an intensive and supportive environment to learn, share, and grow. We are grateful to our colleagues in Delft for taking on the organization of this important event. A detailed announcement is also included in this issue.

PhD Award – Call for Applications

The Society is now accepting applications for the **MCDM Doctoral Dissertation Award**. This award recognizes outstanding PhD work in the field of Multiple Criteria Decision Making. We warmly encourage recent graduates and supervisors to submit nominations. Detailed guidelines and deadlines will be announced in this issue, on our [website](#), and circulated via our mailing list.

Society Awards – Call for Nominations

In keeping with the tradition of the MCDM Society, the Gold Medal, the Edgeworth-Pareto Award, and the Georg Cantor Award will be presented during the conference's social dinner. According to the information available on our [website](#), these three awards have consistently been conferred upon distinguished colleagues in recognition of their outstanding research contributions. The next recipients will follow in the footsteps of Serpil Sayin (Koç University – Gold Medal), Carlos Coello Coello (CINVESTAV-IPN – Edgeworth-Pareto Award), and Francisco Ruiz (University of Malaga – Georg Cantor Award).

I look forward to meeting many of you at our upcoming events and to witnessing the continued vitality of our community. Thank you for your commitment to advancing the field of MCDM and for your support of the Society's activities.

With warm regards,

José Rui Figueira

President
International Society on MCDM

Society News

1.1 28th International Conference on Multiple Criteria Decision Making in Wuppertal, Germany, May 2026

Join us at the 28th International Conference on Multiple Criteria Decision Making (MCDM 2026) at the University of Wuppertal in Germany, **from 25 to 29 May, 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.

We invite you to submit your abstract and be part of this vibrant event. Share your recent developments, applications, and insights related to Multiple Criteria Decision Making with experts from around the world.

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, 2025

For more information, please, visit the conference website:

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



Foto: Colorbox



Foto: Peter Sondermann



Foto: Sebastian Jarczyk

We look forward to seeing you in Wuppertal.

Best Regards,

Kathrin Klamroth & Michael Stiglmayr

University of Wuppertal

Optimization Group

mcdm2026@uni-wuppertal.de

1.2 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**: www.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



Tentative List of Lecturers (in alphabetical order) and Topics

1. **Juergen Branke**, University of Warwick, UK
Interactive Evolutionary Multiobjective Optimization
2. **Salvatore Corrente**, University of Catania, Italy
Composite Indicators
3. **Jose Rui Figueira**, Instituto Superior Técnico, University of Lisbon, Portugal
Outranking Methods
4. **Salvatore Greco**, University of Catania, Italy
MAUT, Preference Modelling, Robust Ordinal Regression
5. **Milosz Kadzinski**, Poznan University of Technology, Poland
MCDM Method Selection and Case Work
6. **Murat Koksalan**, Middle East Technical University, Turkey
Interactive Methods of Multiobjective Optimization with Behavioral Aspects
7. **Kaisa Miettinen**, University of Jyväskylä, Finland
Non-linear Multiobjective Optimization
8. **Jafar Rezaei**, Delft University of Technology, The Netherlands
Pairwise Comparisons and Best-Worst Method; "Meet the Editor, JMCDA"
9. **Serpil Sayin**, Koç University, Turkey
Multiobjective Combinatorial Optimization
10. **Roman Słowiński**, Poznan University of Technology, Poland
Decision Rule Approach; "Meet the Editor, EJOR"
11. **Rudolf Vetschera**, University of Vienna, Austria
Group Decision and Negotiations with Behavioral Aspects
12. **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 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 (to be provided on the summer school website: www.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
j.rezaei@tudelft.nl

1.3 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 May 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, 2026**. Make sure you receive an acknowledgement of the receipt of your nomination.

Murat Köksalan

Awards Committee Chairperson

1.4 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\(at\)mcdmsociety.org](mailto:phdaward(at)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\(at\)mcdmsociety.org](mailto:phdaward(at)mcdmsociety.org).

Best regards,

Salvatore Greco

Chair of PhD Award Committee

1.5 Full Membership in the Science Academy Society of Turkey



We are proud to share that both Prof. Dr. Murat Köksalan and Prof. Dr. Serpil Sayın have been elected as full members of the Science Academy Society of Turkey. This distinguished and independent institution brings together leading scientists from Turkey and abroad, and is dedicated to promoting scientific excellence, academic freedom, and integrity.

Professors Köksalan's and Sayın's impactful and pioneering research in areas such as Multiple Criteria Decision Making, Decision Analysis, Multi-Objective Decision Making, Operations Research, and Healthcare Systems were instrumental in their memberships in the society.

We congratulate both of them and celebrate their continued contributions to the scientific community.

Find out more about the Science Academy Society of Turkey on their website:

<https://en.bilimakademisi.org/>

1.6 IFORS Fellow Award 2025

The Multiple Criteria Decision Making (MCDM) community is proud to announce that Prof. Adiel Teixeira de Almeida has been designated with the **IFORS Fellow Award 2025**, which is an honour awarded to candidates who have made a distinguished individual contribution to international operational research and its communities (<https://www.ifors.org/ifors-fellows/>), and therefore,



contributing to the mission of the International Federation of Operational Research Societies (IFORS). Prof. Adiel de Almeida has given outstanding contributions to the Operational Research (OR) area, with a focus on MCDM, Decision Support Systems (DSS), and Group Decision and Negotiation (GDN), topics, including their association with Risk, Reliability, and Maintenance (RRM) management. The selection made by the committee considers **five criteria: Research, Practice, Management, Education, and Service**.

On Research, the contributions include methodological innovations which strengthened international links. Adiel and his co-workers are the originators of the FITradeoff (Flexible and Interactive Tradeoff) method for MCDM, in which a more flexible process is considered for the elicitation of preferences of a decision maker (DM), with partial preference information. He received the EURO (Association of European Operational Research Societies) Award for the best EJOR paper in Theory and Methodology for the first paper related to the FITradeoff method, which has been widely applied around the world, using a DSS freely available for the method (<http://www.fitradeoff.org>). This method has been conceived based on many years of practical experience with preference modelling in the industry environment, founded on Multi Attribute Value Theory. He designed the FITradeoff method in order to reduce the amount of preference information required and to eliminate inconsistencies that may arise. The method can solve decision problems by handling only partial information and permits the combined utilization of other approaches.

He has developed other methodological contributions. One of them uses veto concept for MCDM/A additive models. In project portfolio selection, he and one of his international partners have made methodological contributions to improve MCDM/A methods in order to avoid the size effect, which could cause a sub-optimal portfolio to be chosen. Dr. de Almeida and his research team have created a range of methodologies for enhancing MCGDM (Multiple Criteria Group Decision Making) process for reaching a common decision, coupled with insightful applications. For instance, they have also implemented the FITradeoff method for MCGDM, in which a more flexible process is considered for a group of DMs. Also, he has worked with an international broadly recognized colleague in social choice theory for selecting voting procedures based on decision makers' preferences, using MCDM methods as a result they published a book (de Almeida; Morais; Nurmi, 2019) on "Systems, Procedures and Voting Rules in Context - A Primer for Voting Rule Selection" in the Springer Nature series of Advances in Group Decision and Negotiation.

Dr. de Almeida and his team have created a new lab of **decision neuroscience**. In the last six years, they developed several behavioural studies, including experiments with neuroscience tools in order to improve MCDM methods, including FITradeoff. As a result, many changes in the DSS have been implemented and new methods for decision neuroscience experiments have been proposed. He has been working to strengthen international links in this area and he was invited to be a lecturer on 'decision neuroscience' in the BOR (Behavioural OR) Summer School, organized by the EURO Working Group (EWG) on BOR.

Dr. de Almeida is the lead author for the seminal book on *Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis* (2015) published in the prestigious Springer book series: "International Series in Operations Research and Management Science." He wrote this book with his former students, now Full and Associate Professors. His original work on RRM, along with his most recent research on this topic within an MCDM framework, have been published in top international journal for more than two decades. Due to the success of the first book, another book for advanced studies in this topic has been invited by the Springer editors of this series, which was published in 2022, as an edited book in collaboration with other editors related to RRM.

On Practice, the contribution includes application to significant practical problems that contributed to the promotion of the use of MCDM methods in several contexts, particularly in RRM. Since the beginning of his career, Dr. de Almeida has dealt with significant practical problems that contributed to the promotion of the use of MCDM methods. Prior to becoming an academic in 1996, he gained industrial experience as *Chief Engineer* and *Manager*. For instance, he worked for over 16 years for CHESF (a network of electric power generation and transmission in high voltage in Brazil). This provided solid insights for guiding his research in worthwhile directions. As a professor at UFPE (Federal University of Pernambuco), Adiel integrated methodological developments in MCDM, with several applications, which have appeared in relevant journals and conference proceedings.

The contribution **on Management** includes significant responsibility for the development and application of OR methods within organizations that have had a major internal and international impact. Dr. de Almeida has further contributed to *technology transfer* via carrying out applied R&D projects within business organizations, utilities, and government agencies. The international impact of those OR applications can be perceived by the action of INCT-INSID (<http://www.insid.org.br>), founded by Dr. de Almeida, which is a cooperative inter-institutional scientific network with national and international extensions for developing advanced research and applications on MCDM and GDN. The Institute gathers associate labs of the main Brazilian universities related to these topics and international partners.

On Education, Dr. de Almeida's contributions include administrative and other activities, such as mentoring, with emphasis on MCDM, DSS, GDN, and RRR areas. He has designed and implemented two undergraduate and two Postgraduate Programs in Management (Production) Engineering in two different campuses at UFPE. He has been the strategic planner of the department in Recife, recruiting and developing a team of researchers with a well-recognized scientific production. He led this Department to become the top two in the country in less than 15 years, predominantly in research and education of OR area, with emphasis on MCDM, DSS, GDN, and RRR topics. His mentoring contribution has had a significant impact. Four of his mentored students (Professors afterwards) have served on the board of OR Societies, including SOBRAPO (Brazilian OR Society), INFORMS (MCDM Section and GDN Section), and EURO (EWG-DSS), and also on the Executive Committee of the International Society on MCDM.

On Service, Adiel's contribution within the IFORS mission includes serving on the Editorial Board of several distinguished journals related to MCDM. He has served the board of societies related to OR, which includes the board of SOBRAPO for over 10 years and currently he serves as President of the MCDM Section of INFORMS. Also, he has served as a member of the Executive Committee of the International Society on MCDM.

The inclusion of Adiel de Almeida as a Fellow of IFORS is an honour for the MCDM community, which by means of the International Society on MCDM granted him with the **Georg Cantor Award** (2022).

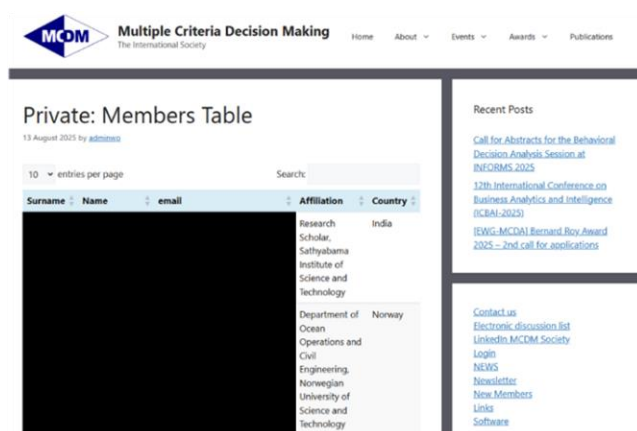
1.7 International Society on MCDM Website Renewal

I am delighted to announce that the renewal of the [website](#) of our International Society on Multiple Criteria Decision Making (MCDM) has been successfully completed. Since October 2024, a dedicated task force composed of José Rui Figueira, Gulsah Karakaya, Giovanni Misitano, Serpil Sayin, and myself has been overseeing this project, with the invaluable technical support of Antonio Corrente, who generously contributed his expertise free of charge.

All member accounts from the previous website have been migrated to the new platform. However, in compliance with the General Data Protection Regulation (GDPR) 2016/679, each member is required to reset their password. To do so, please visit the [Login](#) page and click on “Lost your password?”. Your username corresponds to the email address used during registration. A password reset link will then be sent to you — if you do not receive it, kindly check your spam folder.

The website is now fully functional, and I would like to highlight two important sections:

- **News:** If you wish to share MCDM-related announcements (conferences, workshops, awards, special issues, etc.), please send them to secretary@mcdmsociety.org. I will ensure they are published promptly.
- **Members by Country:** This section, also available in the previous version, displays a table ranking countries by number of members. By clicking on the map above the table (accessible after logging in), you will be directed to the page shown in Figure 1.



Surname	Name	email	Affiliation	Country
			Research Scholar, Sathyabama Institute of Science and Technology	India
			Department of Ocean Operations and Civil Engineering, Norwegian University of Science and Technology	Norway

Figure 1: Members Table Page

Using the search bar on this page, you can browse the members' list to find colleagues from your country or others, with access to their affiliation and email address.

I believe both of these sections are particularly valuable. The [News](#) page enables us to quickly disseminate relevant information, while the [Members by Country](#) page fosters stronger connections among registered members.

In addition, I would like to remind you that our society also has a LinkedIn group: “[International Society on Multiple Criteria Decision Making](#).” Membership in the group is reserved for members of the MCDM Society.

For any questions or further assistance, please do not hesitate to contact me.

Best regards,

Salvatore Corrente

2 Upcoming Events, Call for Papers, and Other News

2.1 Information about the INFORMS Section on MCDM



Dear Members of the International Society on MCDM,

On behalf of the INFORMS Section on MCDM, we cordially invite you to join our vibrant MCDM community at: <https://connect.informs.org/multiple-criteriadecision-making/home>.

The annual membership fee is \$10 for non-INFORMS members, \$7 for INFORMS members, and only \$2 or \$5 for students and retired members, respectively.

INFORMS is the leading professional association for decision and data sciences, with more than 12,500 members worldwide. The MCDM Section takes an interdisciplinary approach to advancing both the theory and application of MCDM methodologies. Our mission is to foster the exchange of ideas, promote innovative research, and increase the visibility of MCDM within academic, industry, and policy-making circles.

We are committed to strengthening collaboration among the INFORMS MCDM Section, the International Society on MCDM, the EURO Working Group on MCDA, and other key organizations in the field.

We also invite you to join us at the [2025 INFORMS Annual Meeting](#), which will take place in Atlanta, Georgia, from **October 26-29, 2025**.

As President and Vice President of the INFORMS MCDM Section, we are excited about the opportunities for collaboration and community-building ahead. Together, we can advance the goals of our section and strengthen the field of MCDM in today's dynamic environment.

We look forward to welcoming you to the MCDM Section of INFORMS!

Best wishes

Adiel Teixeira de Almeida & Banu Lokman



2.2 EURO Working Group on Multiple Criteria Decision Aiding

The 100th Meeting of the EURO Working Group in Multiple Criteria Decision Aiding (EWGMCD A) is scheduled for September 11 to 13, 2025 in Poznań, Poland. It is organized jointly by EWGMCD A and the Institute of Computing Science at Poznan University of Technology, Poland. The first day of the meeting (Thursday, September 11, 2025) will be held in the Działyński Palace in the Poznań Branch of the Polish Academy of Sciences, right on the Old Market Square. The second meeting day (Friday, September 12, 2025) will be held in the Lecture Center and Technical Library building of Poznan University of Technology. The optional get-together walking tour in Poznań will take place on September 13, 2025.

The main topic is *“From Memories to the Future.”* On the occasion of the 100th anniversary, the meeting will begin with a commemorative session. The subsequent sessions will follow the standard scientific program. Therefore, we welcome all contributions on the theory, methodology, and applications of MCDA.

The detailed program is available on the website (<https://ewgmcd a100.cs.put.poznan.pl/>).

2.3 Special Issue: Multi-objective Programming, Journal of Multi-Criteria Decision Analysis

Multi-objective optimization has become an indispensable tool in many application areas. Since handling multiple objective functions adds a further layer of difficulty to an optimization problem, compact problem formulations, theoretical analyses, and efficient solution algorithms are of particular importance to solve multi-objective optimization problems arising in real-world applications.

This special issue will focus on recent advances in multi-objective programming.

We invite high-quality submissions addressing theoretical and algorithmic developments, and advancing the theory and methodology of multi-objective optimization. Subject areas of this special issue include (but are not limited to):

- scalarization methods and objective space algorithms
- decision space algorithms
- approximation and representation algorithms for multi-objective optimization
- multi-objective branch-and-bound and branch-and-cut algorithms
- column generation and branch-and-price algorithms
- multi-objective discrete and combinatorial problems
- multi-objective continuous linear or non-linear problems
- multi-objective mixed integer (non-)linear problems
- stochastic and robust multi-objective optimization
- complexity analysis for multi-objective optimization algorithms
- parallelization of exact multi-objective optimization algorithms
- multi-objective optimization with general dominance cones

Authors should follow the journal Guidelines for Authors and submit their high-quality manuscript by **30 September 2025** via the Wiley online system, selecting the appropriate Special Issue option (<https://submission.wiley.com/journal/MCDA>).

Submitted manuscripts must not have been published previously, nor be under consideration for publication elsewhere. The results included in the manuscripts shall be reproducible by others. Thus, we strongly encourage authors of algorithmic papers to share their implementations (e.g., via GitHub).

Submitted manuscripts will be subject to a peer-review process according to the journal's standards.

The Guest Editors of this Special Issue are:

Lavinia Amorosi, Sapienza Università di Roma, Italy; lavinia.amorosi@uniroma1.it
 Sophie N. Parragh, Johannes Kepler University, Linz, Austria; sophie.parragh@jku.at
 Michael Stiglmayr, University of Wuppertal, Germany; stiglmayr@uni-wuppertal.de

2.4 *Multi-Objective Decision Making Workshop 2025*

In recent years, there has been a growing awareness of the need for automated and assistive decision making systems to move beyond single-objective formulations when dealing with complex real-world issues, which invariably involve multiple competing objectives. The purpose of this workshop is to promote collaboration and cross-fertilisation of ideas between researchers working in different areas of multi-objective decision making in the context of intelligent systems, and to provide a forum for dissemination of high-quality multi-objective decision making research.

Previous editions of this workshop may be found at the following URLs:

- [MODeM 2024](#)
- [MODeM 2023](#)
- [MODeM 2021](#)

The workshop targets high-quality original papers covering all aspects of multi-objective decision making, including, but not limited to, the list of topics below. The following is a non-exhaustive list of topics that we would like to cover in the workshop:

- Multi-objective/multi-criteria/multi-attribute decision making
- Multi-objective reinforcement learning
- Multi-objective planning and scheduling
- Multi-objective multi-agent decision making
- Multi-objective game theory
- Preference elicitation for MODeM
- Social choice and MODeM
- Multi-objective decision support systems
- Multi-objective metaheuristic optimisation (e.g. evolutionary algorithms) for autonomous agents and multi-agent systems
- Multi-objectivisation
- Ethical AI through multi-objective modelling
- Explainable AI through multi-objective modelling
- Interactive systems for MODeM
- Applications of MODeM
- Interdisciplinary work (MODeM research that relates to other fields)
- New benchmark problems for MODeM

Program Details

The workshop programme will consist of contributed original talks, invited talks, and a panel discussion. We might also ask participants to pre-record talks and make them available outside of the workshop sessions, on our Youtube channel.

Submission Details

Papers should be formatted according to the ECAI 2025 guidelines, and should be a maximum of 7 pages in length (with additional pages containing references only). Additionally, we welcome submission of preliminary results, i.e. work-in-progress, as well as visionary outlook papers that lay out directions for future research in a specific area, both up to 5 pages in length, although shorter papers are very much welcome, and will not be judged differently. Finally, we also accept summaries of recently published journal papers in the form of a 2-page abstract (we note that these type of submissions need not be anonymised).

All submissions will be peer-reviewed (**double-blind**). Accepted work will be allocated time for poster and/or oral presentation during the workshop.

Papers can be submitted through EasyChair.

Important Dates

Submission Deadline: ~~15 July 2025 (23:59 AoE)~~ extended to 23 July 2025 (23:59 AoE)

Notification of Acceptance: ~~15 August 2025~~ 22 August 2025

Camera-ready Copies: 15 September 2025

Workshop: 25 October 2025

Program Committee

If you are interested in serving on the programme committee, please get in touch with the organisers:

- Pieter Libin (Vrije Universiteit Brussel, BE)
- Patrick Mannion (University of Galway, IE)
- Roxana Rădulescu (Utrecht University, NL; Vrije Universiteit Brussel, BE)
- Willem Röpke (Vrije Universiteit Brussel, BE)
- Senior Advisory Committee:
- Ali E. Abbas (University of Southern California, USA)
- Carlos A. Coello Coello (CINVESTAV-IPN, MX)
- Richard Dazeley (Deakin University, AU)
- Enda Howley (University of Galway, IE)
- Ann Nowé (Vrije Universiteit Brussel, BE)
- Patrice Perny (UPMC, FR)
- Marcello Restelli (Politecnico di Milano, IT)
- Diederik M. Roijers (Vrije Universiteit Brussel, BE; City of Amsterdam, NL)
- Peter Vamplew (Federation University Australia, AU)
- Nic Wilson (University College Cork, IE)

Contact

If you have any questions about the MODeM workshop, please contact the organizers at: modem.organisers@gmail.com

2.5 The 24th Conference of the International Federation of Operational Research Societies (IFORS)

IFORS will take place on 12–17 July 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.



copyright by: Gebhard Sengmueller

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 Germanspeaking 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.

Important Dates & General Information

Opening of Abstract Submissions: 1 December 2025

Deadline for Abstract Submissions: 15 March 2026

Early Bird Registration Deadline: 25 April 2026

Final Registration Deadline for Authors: 25 April 2026

3 Past Conferences, Workshops, and Other News

3.1 EURO 2025 MCDM Highlights

The 34th EURO 2025 took place in Leeds, United Kingdom, from June 22 - 25, 2025, marking the 50th Anniversary of EURO. The conference gathered researchers, academics, and practitioners worldwide and featured a rich program.

Keynote Speeches

In the field of MCDM, two distinguished keynote speeches were delivered:

Murat Köksalan

University of Michigan, US

Multiple Criteria Decision Making and its Applications



Abstract: Humans have been making decisions based on multiple criteria for centuries. The field of Multiple Criteria Decision Making (MCDM) has evolved over the past seven decades, with significant theoretical advancements occurring in the 1960s and 1970s. Since then, numerous algorithms have been developed to support decision-making. More recently, related fields such as multiobjective combinatorial optimization and multiobjective evolutionary optimization have attracted many researchers.

In this talk, I will distinguish between “choice” and “design” problems. The former involves selecting from a set of predefined alternatives based on multiple criteria, while the latter focuses on solving a mathematical model to create (design) new alternatives. I will briefly explore several key approaches to addressing the design problem. Additionally, I will present specialized methods we have developed, alongside my co-authors, to tackle challenges in various domains, including product and process design, public debt management, portfolio optimization, energy auctions, and unmanned aerial vehicle routing.

Kaisa Miettinen

University of Jyväskylä, Finland

Decision Support with Interactive Multiobjective Optimization Methods and Software

Abstract: We encounter multiobjective optimization problems in various domains when we must make a decision while considering several conflicting objective functions simultaneously. Because of the conflict, we can identify so-called Pareto optimal solutions representing different trade-offs and we need some additional information to order these solutions. Typically, we assume to get preference information from a domain expert called a decision maker.

Multiobjective optimization methods support the decision maker in finding the best balance among the trade-offs, that is, the most preferred solution.



In this talk, I concentrate on interactive methods, where the decision maker augments the problem formulation with domain expertise and directs an iterative solution process with preferences. In an iterative fashion, the decision maker gains insight into the interdependencies and trade-offs among the conflicting objective functions and learns about the feasibility of the preferences. Based on the learning, the decision maker can update the preferences and eventually get convinced of the

quality of the most preferred solution. I demonstrate the advantages of some interactive methods with real examples. In addition, I also give a brief overview of the modular, open-source software framework DESDEO that hosts different interactive methods and enables e.g. switching the method during the solution process to support the decision maker better.

These keynote speeches underscored the continued importance of MCDM research within the OR community, highlighting both methodological advancements and practical applications.

Streams

Invited sessions on **Multiple Criteria Decision Aiding** and **Multiobjective and Vector Optimization** offered valuable presentations.

• Advances in Preference Learning Methods

chaired by Milosz Kadzinski and Salvatore Corrente

1. Advancing Value-Based Preference Learning through Neural Network Architectures and Transfer Learning - *Michał Fredrych, Milosz Kadzinski*
2. Preference learning augmented by graph structure for multiple criteria sorting with varying interactions - *Zhen Zhang, Yuan Gao*
3. Federated deep preference learning for Multiple Criteria Decision Aiding - *Krzysztof Martyn, Milosz Kadzinski*
4. A multi-criteria group decision making and consensus reaching webtool for synchronous deliberations using 2-tuple TOPSIS - *Konstantinos Koasidis, Anastasios Soursos, Georgios Xexakis, Álvaro Labella, Anastasios Karamaneas, Alexandros Nikas*

• Recent Advances in Multiobjective Optimization

chaired by Ozlem Karsu

1. Warm-Starting Strategies in Scalarization Methods for Multi-Objective Optimization - *Stephanie Riedmuller, Janina Zittel, Thorsten Koch*
2. Discrete Representation of Nondominated Sets in Multiobjective Integer Programs - *Banu Lokman, Ilgin Dogan, Murat Koksalan*

3. On image space transformations in multiobjective optimization - *Felix Neussel, Oliver Stein*
4. Weight Space Decomposition given Extreme Supported Nondominated Points of a Multiobjective Optimization Problem - *Firdevs Ulus, Ozlem Karsu*

Elevator Pitches on the 50th Anniversary Articles

As part of the 50th Anniversary of EURO, a special stream of Elevator Pitches highlighted invited papers recently accepted in EURO journals. These short talks offered concise insights into 50 years of developments in major areas of Operations Research, along with future directions.

The session featured contributions from the MCDM field, including the following published papers:

- *Fifty Years of Multi-Objective Optimization and Decision-Making: From Mathematical Programming to Evolutionary Computation*, authored by Matthias Ehrgott, Murat Köksalan, Miłosz Kadziński, and Kalyanmoy Deb.

To read the article, visit:

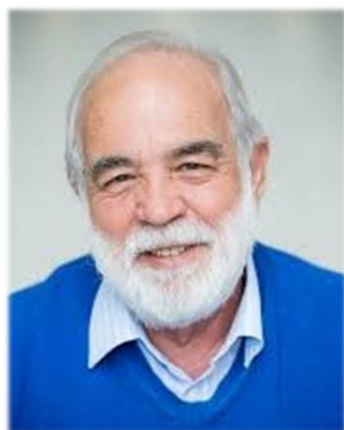
<https://www.sciencedirect.com/science/article/pii/S0377221725004849>

- *Fifty Years of Multiple Criteria Decision Analysis: From Classical Methods to Robust Ordinal Regression*, authored by Salvatore Greco, Roman Słowiński, and Jyrki Wallenius.

To read the article, visit:

<https://www.sciencedirect.com/science/article/pii/S0377221724005988>

Special Memorial Session for Professor Theodor J. Stewart



At EURO 2025 in Leeds, a special memorial session was held to honor the life and contributions of Professor Theodor J. Stewart to Operational Research. The session was chaired by K. Nadia Papamichail, Ian Durbach, and Salvatore Greco.

The program featured:

- *Contributions to Research of Theo Stewart* — Murat Köksalan and Jyrki Wallenius
- *Scenario-Focused Decision Analysis: A Discussion* — Simon French
- *Balance and baselines: an impossibility theorem and a new axiomatisation of an additive scoring rule* — Alec Morton and Lars Østerdal.
- *Integrated Multi-Objective Optimisation for Walking School Bus Route Planning and Supervisor Rostering* — Leena Ahmed, Matthias Ehrgott, Judith Y. T. Wang, Ahmed Kheiri

The event brought together colleagues and friends to reflect on Professor Stewart's lasting influence on the field and to celebrate his scholarly legacy.

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.; Ayık 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.; Aytakin 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 polychotomic 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.; Zaragoza 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.

Diaz 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.; Treanță 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.; Huneshtagen 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, *Heliyon*, 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 L_q^* 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.; Novarlić 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.; Aytakin 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.; Ekren 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.; Kummari 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.; Szafranski 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.; Dhési 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, *Haceteppe 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.; Ehrental 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.

Drici 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 multi-criteria 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 Colombian maintenance industry: an experience report**, 2025, *Journal of Decision Systems*, 34(1), 2458879.

Berrachedi K.; Moulai M.; Chaiblane 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.

Aytekın 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.

Treanță 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.; Probiez B.; Juszczuk P.; Stefański P.; Jach T.; Głowania 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.; Chaffé 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.; Hounkpè 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.; Palangetic 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.; Callefí 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.

Zeiträg 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-GRAPH-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.; Palangetić M.; Greco S.; Słowiński 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-Santamaria D.; Garcia-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, LNICST*, 598 LNICST, 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 eNegotiation 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 Imprints

Gülşah Karakaya: newsletter@mcdmsociety.org, kgulsah@metu.edu.tr

He Huang (River): he.huang@psi.ch

Ece Demirer: eced@metu.edu.tr

We are working on publishing the newsletter of the International Society on Multiple Criteria Decision Making two times a year. Usually, the deadline for the January issue is January 10th and the issue is 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).