EWG-MCDA
EURO Working Group on Multicriteria Decision Aiding
Groupe de Travail Européen Aide Multicritère à la Décision
NEWSLETTER
BULLETIN

Groupe de Travail Européen "Aide Multicritère à la Décision"
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European Working Group "Multiple Criteria Decision Aiding"
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Opinion Makers Section

About the 100th Meeting of the EWG on MCDA in Poznan, Poland

From September 11–13, 2025, the 100th meeting of the European Working Group on Multiple Criteria Decision Aiding was held under the auspices of Poznań University of Technology (Poznań, Poland). The event was organized by Miłosz Kadziński and Roman Słowiński. The milestone theme—"From memories to the future"—celebrated the group's rich history while looking ahead. The meeting welcomed nearly 60 researchers from around the world, including participants from Algeria, Belgium, Brazil, Canada, France, Germany, Greece, Italy, Poland, Spain, Switzerland, and the United Kingdom.

Day 1 (Thursday, September 11).

The opening day took place in the Działyński Palace, a beautiful Baroque residence built in the second half of the 18th century, located by the Old Market Square and now home to the Poznań Branch of the Polish Academy of Sciences.

Figure 1: Group photo in front of the Działyński Palace.

After a reception and welcome address by Miłosz Kadziński, a commemorative session brought together representatives of different generations to share memories from five decades of meetings and to reflect on the group's impact on their professional paths and personal lives. Speakers recalled how they joined the community, the colleagues who became co-authors and friends, and shared hundreds of nostalgic photos. The invited speakers were Roman Słowiński (the slises Roman presented during his talk can be downloaded at the following link), Benedetto Matarazzo, Salvatore Greco, Sarah Ben Amor, Miłosz Kadziński, and Mohammad Ghaderi.

Figure 2: Roman Słowiński starting his presentation in the commemorative session.

The commemorative session was followed by the Bernard Roy Award 2025 announcement. This distinction recognizes a researcher under 40 for outstanding contributions to MCDA methodology and/or applications. This year's laureate was Maria Barbati (Ca' Foscari University of Venice, Italy). In her lecture, she reflected on her research journey, highlighting methodological advances in multi-objective optimization (notably portfolio optimization with interactive methods) and applications to location and manufacturing decision problems.

Figure 3: Maria Barbati receiving the diploma confirming the Bernard Roy Award 2025.

The scientific program concluded with three talks on methodological and application-oriented advances in outranking methods. Notably, Francis Macary (French National Institute for Agriculture, Food, and Environment), a long-standing EWG-MCDA member, delivered the final presentation of his research career, summing up two decades of using ELECTRE methods in agri-environmental decision support.

Social program (Thursday evening).

Participants enjoyed a festive dinner at Concordia Taste, housed in a more-than-100-year-old building whose interior blends tradition, Polish design, and a cozy, open-kitchen ambiance. The menu showcased Polish comfort food in fresh interpretations, including pyra with cottage cheese, potato cream soup, beef with mustard and plum BBQ sauce, trout from the Zielenica farm, and wuzetka with a cream-vanilla-chocolate filling.

Figure 4: Gala dinner at Concordia Taste Restaurant.

Day 2 (Friday, September 12).

Scientific sessions were held at the Lecture Center and Technical Library on the Warta campus of Poznań University of Technology.

- The first session featured four presentations on advances in preference-based methods and aggregation techniques. For Yann Jourdin (IMT Atlantique) and Jingyi Wang (Poznan University of Technology), it was their first presentation in the EWG-MCDA series and sparked lively discussion.
- The second session offered three thematically consistent talks on evaluating energy solutions (e.g., geothermal tunnels, geothermal policies, and long-term energy pathways) using MCDA.
- The third session focused on tools and approaches for sustainable decision-making, including work envisaged within the EU-funded ENKORE project and the Helmholtz MCDA Tool (HELDA).
- The fourth session presented methodological contributions on refining decision models—covering criteria selection, robustness, and stakeholder perspectives.

Figure 5: Scientific session at Poznan University of Technology.

Group activities and community news.

Announcements of broad interest to the MCDA community included upcoming meetings and events. Sajid Siraj previewed the 101st EWG-MCDA Meeting (Leeds, UK; April 2026), and River Huang announced the 102nd EWG-MCDA Meeting (Zurich, Switzerland; September 2026). The 2027 calendar will also feature meetings in Bordeaux, France, and Athens, Greece. Additional announcements included:

- EURO PhD Summer School on MCDA/M (Delft University of Technology, the Netherlands, July 19 – August 1, 2026),
- MCDM 2026 (Marrakech, Morocco, May 19–24, 2026),
- GDN 2026 (Katowice, Poland, June 21–26, 2026),
- IFORS 2026 (Vienna, Austria, July 12–17, 2026),
- INFORMS 2026 (San Francisco, USA, November 1–4, 2026).

The first call for the Bernard Roy Award 2026 was also announced, with Constantin Zopounidis (Technical University of Crete) chairing the jury.

Leadership recognition and transition.

After 18 years of service as a coordinator, Roman Słowiński stepped down. In recognition of his extraordinary contributions to the development, cohesion, and global reach of the EWG-MCDA community, members unanimously bestowed upon him the title of Honorary Chairman of the EURO Working Group on Multiple Criteria Decision Aiding. The group also approved a new coordination board, now comprising Irène Abi-Zeid (Université Laval, Canada), José Rui Figueira (University of Lisbon, Portugal), Salvatore Greco (University of Catania, Italy), and Miłosz Kadziński (Poznań University of Technology, Poland).

Figure 6: Group photo at Poznan University of Technology.

Day 3 (Saturday, September 13): Social excursion. As per tradition, participants joined a guided walking tour through some of Poznań’s most beautiful districts: the Imperial District, Freedom Square, Przemysł Castle, the Old Market Square, the Croissant Museum, the Parish Church and its surroundings, and Cathedral Island. At the Croissant Museum, Núria Agell, Monica Sanchez, Salvatore Greco, and River Huang took part in preparing St. Martin croissants, a regional specialty filled with white poppy seeds. The tour concluded with a traditional Polish dinner at Tumska Restaurant on Cathedral Island.

Figure 7: Preparation of St. Martin’s croissants at the Croissant Museum.

Figure 8: Conclusion of the guided walking tour at the Cathedral Island.

We sincerely hope all participants enjoyed their time in Poznań—both the scientific program and the social activities. The detailed meeting program is attached. The Program and Book of Abstracts are also available on the conference website: https://ewgmcda100.cs.put.poznan.pl/. We look forward to the next EWG-MCDA meeting in Leeds in April 2026.

Program of the 100th Meeting of EWG-MCDA

Thursday, September 11, 2025

Działyński Palace, Polish Academy of Sciences (Poznań Branch)

12.00-13.00 Registration / light lunch

13.00-16.00 Session 1: From memories to the future

Opening (chair: *Miłosz Kadziński*)

Memorial session at the occasion of 100th meeting (speakers: Roman Słowiński, Benedetto Matarazzo, Salvatore Greco, Sarah Ben Amor, Miłosz Kadziński, Mohammad Ghaderi)

Bernard Roy Award 2025 including laureate’s lecture (chair: Salvatore Greco; laureate: Maria Barbati)

16.00-16.30 Coffee break

16.30-18.00 Session 2: Advances and applications in outranking methods

Chair: *Salvatore Greco* (University of Catania)

Twenty years of use of ELECTRE multicriteria methods for agri-environmental decision-support issues (**Francis Macary**, Odile Phelpin (INRAE, France))

Deck of Cards method for Hierarchical, Robust and Stochastic Ordinal Regression (**Silvano Zappalà**, Salvatore Corrente, Salvatore Greco (University of Catania, Italy))

Advancing Sustainable Tourism Recommendations using ELECTRE-H (**Antonio Moreno**, Aida Valls, Monir Yahya Salmony (Univ. Rovira i Virgili, Spain))

Submitted to discussion

Rank reversal in the PROMETHEE methods: what do we know? (Yves De Smet (Université Libre de Bruxelles, Belgium))

Economics, outranking ELECTRE and computing: From memory to an algorithm for optimising index calculations (Frédéric Leca, Pascal Oberti, Christophe Paoli (University of Corsica Pasquale PAOLI, France))

Exploring Agroforestry Performance through MCDA: Insights from a Participatory Assessment in Southwestern France (Odile Phelpin, Francis Macary (INRAE, France))

Is It Better to Be Overconfident or Financially Literate? A PROMETHEE-Based Ranking of Investor Profiles (Elżbieta Kubińska (Cracow University of Economics, Poland), Anna Macko (Kozminski University, Poland), Stelios Rozakis (Technical University of Crete, Greece))

Random Preference Model (Mohammad Ghaderi, Kamel Jedidi, Miłosz Kadziński, Bas Donkers)

Sensitivity analysis in the spatial multi-criteria decision support process (Abdelkader Mendas, Abdellah Mebrek, Zohara Mekranfar, Yasmine Oualhaci (Algerian Space Agency - Centre des Techniques Spatiales, Algeria))

Friday, September 12, 2025

Lecture Center and Technical Library, Poznan University of Technology

9.00-11.00 Session 3: Advances in preference-based methods and aggregation techniques

Chair: *Miłosz Kadziński* (Poznan University of Technology)

Collective preference elicitation for the SRMP preference model using preference paths (**Yann Jourdin**, Arwa Khannoussi (IMT Atlantique, France) Alexandru-Liviu Olteanu (Université Bretagne Sud, France), Patrick Meyer (IMT Atlantique, France))

Interactive Multi-objective Optimization Guided by Decision Rules Representing User Preferences (**Jingyi Wang** (Poznan University of Technology, Poland), Salvatore Greco (University of Catania, Italy), Piotr Zielniewicz, Roman Słowiński (Poznan University of Technology, Poland))

Heuristic Rating Estimation Method for incomplete pairwise comparisons (**Konrad Kułakowski**, Anna Kędzior, Jacek Szybowski (AGH University of Krakow, Poland))

Multistage Bipolar Method (**Tadeusz Trzaskalik** (University of Economics in Katowice, Poland))

<u>*Submitted to discussion*</u>

Belief Structure in a New TOPSIS-Based Approach for Rank Aggregation (Tomasz Wachowicz (University of Economics in Katowice, Poland), Ewa Roszkowska (Bialystok University of Technology, Poland))

Modelling Group Preferences from Numeric Ratings and Textual Opinions: A Consensus based Framework (Bapi Dutta, Diego García-Zamora, Luis Martínez (University of Jaén, Spain))

Aggregating Linguistic Ratings into a Continuous Scale Through Sentiment Analysis (Walaa Abuasaker, Mónica Sánchez (UPC-BarcelonaTech, Spain), Núria Agell (Esade Business School, Spain), Francisco Javier Ruiz Vegas (UPC-BarcelonaTech, Spain))

The New Frontier: Hierarchical Behavioral Portfolio Management under the Virtue of Complexity (Gordon Dash, Nina Kajiji (University of Rhode Island, USA))

People, Places, Preferences: A Structured Approach to Conference Logistics (Maria Barbati (Ca' Foscari University of Venice, Italy), Sajid Siraj (University of Leeds, United Kingdom))

Combining Artificial Intelligence and Multi Criteria Decision Analysis to improve spatial decision making (Abdellah Mebrek, Abdelkader Mendas, Yasmine Oualhaci, Zohara Mekranfar (Algerian Space Agency - Centre des Techniques Spatiales, Algeria))

Decision Support for Intelligent Autonomous Robots (Andrzej M.J. Skulimowski (AGH University of Krakow, Poland))

Hierarchical Dominance-based Rough Set Approach for Evaluating Omnichannel Retailing Strategies (Weronika Mrozek, Miłosz Kadziński (Poznan University of Technology, Poland), Mladen Stamenković, Aleksa Dokić (University of Belgrade, Serbia))

Digital Requirements Prioritization in the Automotive Industry using a WOWA operator (Pietro Fronte, Núria Agell, Marc Torrens (Esade Business School, Spain))

Prioritization Uncertainty Arising from Judgments Based on Consistent Pairwise Comparisons (Pawel Tadeusz Kazibudzki (Opole University of Technology, Poland))

Relevance of BLP model for the medical markets: issues for Hahn, Hausman, Lustig specification test application (Christine Huttin (France))

11.00-11.30 Coffee break

11.30-13.00 Session 4: Evaluating energy solutions with MCDA methods

Chair: *Salvatore Corrente* (University of Catania)

A multi-step multicriteria approach to evaluate geothermal energy tunnels in urban contexts (**Francesca Biondi**, Marta Bottero, Caterina Caprioli (Politecnico di Torino, Italy))

Incorporating imprecise inputs and robustness concerns: the development of Group Robust FlowSort method (**River Huang** (Paul Scherrer Institut, Switzerland), Miłosz Kadziński (Poznan University of Technology, Poland), Eleftherios Siskos (Technical University of Crete, Greece), Peter Burgherr (Paul Scherrer Institut, Switzerland))

A multicriteria Group Decision Making framework for the evaluation of the sustainability and resilience of the long-term Swiss energy pathways (**Eleftherios Siskos** (Technical University of Crete, Greece), Evangelos Panos, River Huang, Peter Burgherr (Paul Scherrer Institute, Switzerland))

<u>*Submitted to discussion*</u>

Blending Cost-Benefit and multicriteria analyses: implementing Positive Energy Districts through Digital Twin in Riga (Franco Corti, Andrea Sarcina (University of Padova, Italy))

13.00-14.00 Lunch

14.00-15.00 Group activities

Chairs: *Roman Słowiński, Salvatore Greco, Miłosz Kadziński*

101th Meeting of EWG-MCDA (April 2026) (Sajid Siraj (University of Leeds))

102nd Meeting of EWG-MCDA (September 2026) (River Huang (Paul Scherrer Institut))

15.00-16.00 Session 5: Tools and approaches for sustainable decision making

Chair: *Marco Cinelli* (Leiden University)

Shaping Safe and Sustainable Healthcare with an MCDA Twist – The Initial Steps (**Marco Cinelli**, Justus Hinze, Chester Xiao, Stefano Cucurachi (Leiden University, Netherlands), Maria Zenia Jensen Wänglund (Novo Nordisk, Denmark), Sriman Banerjee, Ulrich Bruggemann (Takeda Pharmaceutical Company Limited, USA), Antonis Dimopoulos (Tech Live Labs, Greece), Maria Eugenia Beltran, Liss Hernández (*Universidad Politécnica de Madrid*, Spain))

MCDA for sustainability assessment - Conceptualization and implementation of the HELDA software (Martina Haase, **Laura Mesa Estrada**, Tim Müller (Karlsruhe Institute of Technology, Germany))

Submitted to discussion

Trade-off Analysis for Sustainable Retrofitting of the Public Residential Stock Using a Fuzzy MCDA (Rubina Canesi, Chiara D'Alpaos, Giuliano Marella (University of Padova, Italy))

Modelling and analysing uncertainties from stakeholder preferences in MCDA sustainability assessment of energy technologies (Laura Mesa Estrada, Martina Haase, Manuel Bauman (Karlsruhe Institute of Technology, Germany))

16.00-16.30 Coffee break

16.30-18.00 Session 6: Refining decision models - criteria, robustness, and stakeholder perspectives

Chair: *Nikolaos Tsotsolas* (University of West Attica)

Application of DELPHI and MCDA UTASoP method for the assessment of evaluation models of the educational systems (**Nikolaos Tsotsolas**, Athanasios Spyridakos, Konstantinos Triantafyllou (University of West Attica, Greece))

A SMAA-based heuristic for reducing redundant criteria in Multi-Criteria Decision-Making with minimal ranking impact (**Renata Pelissari** (Universidade Presbiteriana Mackenzie, Brazil), Sarah Ben Amor (University of Ottawa, Canada), Leonardo Tomazeli Duarte (Universidade Estadual de Campinas, Brazil))

Submitted to discussion

Measuring Satisfaction Among Public Authorities' Supervisors Regarding the Legislative Framework for Public Project Execution: a MUSA application (Isaak Vryzidis, Zisis Papastamatis, Nikolaos Tsotsolas (University of West Attica, Greece))

Miłosz Kadziński
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photo credit: Konrad Kułakowski
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Personal memories of EWG-MCDA members

Maria Barbati: The first EWG-MCDA meeting I attended was the 88th, in September 2018, in the beautiful city of Lisbon. It was held in a historic building, where I presented my first work in the field. I felt somewhat nervous, given the reputation and importance of the group's members, but the presentation went well, and I was warmly welcomed into the community.
For me, the EWG-MCDA has always been a professional, welcoming, and stimulating community. It's a place where you can learn about various applications and methods that support complex decision-making, and I really appreciate the diversity of the topics.
One moment I remember especially well was the social dinner in Paris at the 95th meeting. That evening I discovered there was a chance to host the Spring meeting in 2025. I immediately volunteered, and from then on, I started planning and organising to chair the meeting. It turned out to be an experience I truly enjoyed, and it helped me feel even more connected with the whole group.

Dominique Bollinger: In 1996, I began my engineering career with Lucien-Yves Maystre, professor and founder of the Institute of Environmental Engineering at EPFL in Lausanne. He immersed me directly in MCDA approaches, notably through a collaboration and a « surprise » visit for a few months with a certain Roman Slowinski, who was expecting to meet « another Swiss » who was then away on his postdoctoral fellowship: Jacques Pictet, with whom we founded the « Bureau d'aide à la décision Pictet & Bollinger » two years later.
Roman and I worked together on a complex and conflictuous real-life case, combining our respective knowledge and skills in an admirable way, resulting in a wonderful friendship, as well as a presentation and an article, published in the Lamsade journals, highlighting the success of our joint project. It was in Celakovice in March 1997, at the group's 45th meeting, that I joined the Euromulti group, a "young 25-year-old" in the midst of my "baptism of fire"! A grand entrance into this group, supported by these two "godfathers" and friends: Roman and Lucien-Yves, with whom we would write a book on several practical cases published at the PPUR.
I was also deeply touched by the recognition and friendship from Bernard Roy, the father of the ELECTRE methods that I had and would use so much.
The Euromulti group and this first participation shaped a large part of my professional career to this day... and for several more years to come.
A BIG THANK YOU to this group and all its members and friends.

Matteo Brunelli: I have been working with MCDA methods since 2008, when I began my doctoral studies, but I didn't attend my first MCDA meeting until Spring 2017 in Padova — a missed opportunity in hindsight! Fortunately, that meeting was held so close to home that I couldn't pass it up (besides, how many conferences are free to attend?). Since

then, I've participated in many of these meetings. Thanks to the working group, I've come to feel like an active member of the European MCDA community, with a real opportunity to contribute.
I'd also like to share one personal memory, although there could be many. During the second meeting I attended — in Delft, April 2018 — a question I asked following one of the presentations sparked what became a long-standing, and still ongoing, collaboration with Jafar Rezaei. That simple moment, to me, captures the true spirit of this community.

Marco Cinelli: The first EWG-MCDA meeting I attended was the 82nd one, held in September 2015 in the tiny and cute town of Odense in Denmark.
The EWG-MCDA is for me a very professional, welcoming and stimulating research community. It is a safe landing spot for analysts interested in learning about, developing and testing algorithms to support (complex) decision-making.
A vivid memory of the meeting in Odense in 2015 relates to exchange I had with my future PhD examiner. While I was enthusiastically explaining some of my PhD research, he politely explained me that a different approach would have been more suitable for my type of work. This connects with a major quality that I've found in many of the senior members of this group - they can politely and softly tell you that you are wrong without making you feel like a loser. Instead, they always humbly encourage (young) researchers to revise their reasoning and refine their research journey.

Elisabeth Clément: My first meeting …
It was in Moscow in 2003—another era, when anything seemed possible. Moscow and Russia were opening up to us, still largely undiscovered. The head of the institute hosting us had just passed away, yet his colleagues welcomed us nonetheless, even as they grieved and struggled with uncertainty. Their spiritual leader was gone, and the future of the institute was unclear.
I found it remarkable that the institute was able to conduct research in optimisation and project management, and that it appeared to have integrated multi-criteria decision analysis (MCDA) into its methodologies—even during the Soviet era. Russian mathematicians are exceptionally talented and capable of developing highly sophisticated theoretical approaches. However, MCDA is a decision-making tool that involves weighing criteria in a way that reflects democratic principles. And the Russians understood this well.

Salvatore Corrente: I first joined our EWG-MCDA group in Tarragona in 2012, for the 75th meeting. Since then, I have taken part in 17 more meetings, which gave me the opportunity to meet new people and discover wonderful places.
Usually, when attending a conference, one feels the pressure of the presentation and the concern about colleagues' reactions. The atmosphere in our group, however, is different. While the scientific level is very high, you also have the impression of being among friends rather than just colleagues. Indeed, many of the people I have met through the group, and with whom I have had the pleasure of collaborating, have become true friends.
Looking back at my participation in the EWG-MCDA meetings, several memories come to mind. Let me share three of them (not necessarily in order of importance):
The 86th meeting in Paris – This will always remain in my memory, both for the beauty of the venue (the French branch of the Polish Academy of Sciences) and for the honor of presenting my work there. It was truly incredible.
Receiving the Bernard Roy Award – Even though I could not receive the award in person due to the COVID situation, winning it was a very meaningful moment for me. It was made even more special by the fact that I had had the pleasure of meeting Professor Roy on several occasions.
My first meeting in Tarragona – This meeting will always stay with me, not only because it was my first participation, but also because it was the occasion of my first international presentation. I still remember how nervous I was before starting. At the end, Yannis Siskos, who was chairing the session, commented: "Thank you, Salvatore, for the nice presentation. However, it seems to me you have presented more than one paper." He was right — I had included far too many slides (a youthful mistake!), and in fact, from that material, at least three papers were later published. After the presentation I also had some health problems, but that is another story…

Salvatore Greco: I have attended 43 meetings of the EWG-MCDA. Each of them left me with valuable memories, but let me share just a few, my very first meeting, and some of those that have been most important in my life and career.
My first meeting was the **28th, in Acireale (Italy), October 1988**, organized by Benedetto Matarazzo. It was a very special experience: only a few months earlier I had graduated with a thesis on multicriteria decision analysis, and suddenly I found myself in a conference room with the authors of the books I had studied — Enric Jacquet-Lagrèze, Philippe Vincke, Carlos Bana e Costa, Alain Schärlig, and Bernard Roy. Meeting them in person was astonishing. On that occasion, I also met two young Polish researchers, Jan Werglaz and Roman Słowiński, names that soon became very well known in the group.
A few years later, the **40th meeting (Paris–Bordeaux, 1994)** proved decisive for me. During the train ride on the TGV, Roman Słowiński, Benedetto Matarazzo and I discussed an idea that would, after years of work, become the **Dominance-based Rough Set Approach**, the most important contribution I have made to the field.
The **43rd meeting (Brest, 1996)** was another turning point: I was on the verge of abandoning that idea, but a sudden insight soon after revived it, leading eventually to success. And indeed, at the **50th meeting (Cerisy-la-Salle, 1999)** we had the honor of presenting that very theory in the opening plenary session, showing how it could provide one of the most general frameworks for decision aiding.
Two other meetings remain unforgettable to me because of their human dimension. The **81st (Annecy, 2015)** was the celebration of Bernard Roy's 80th birthday. I remember calling myself one of the "barbarians" of the field, in reference to Alessandro Baricco's book, and Bernard laughing and approving. Later he gave an emotional talk, which became one of his last contributions. The **86th (Paris, 2017)** was Bernard's final meeting. I spent hours discussing with him and José

Figueira a paper we were writing together. When we said goodbye, he told me: "I'm waiting for your email." I sent it, he read it, but sadly he passed away the following month. That article was published only in 2022, after five years of work.
Looking back, I realize that these meetings have not only shaped my scientific career but also my personal life. I hope that by sharing these memories, I can convey how much being part of this group has meant to me and how important it is for us all to keep it alive and growing.

River Huang: My first EWG-MCDA meeting was EWG-MCDA 93, hosted by the University of Belgrade, Serbia, which I attended online. To me, the EWG-MCDA group is a scholarly community that continually elevates the standard of MCDA research; its meetings bring together excellent researchers from whom I learn, with whom I collaborate, and with whom I build lasting friendships. A special moment came at that first meeting, invited by Salvo Corrente, when he introduced me as the new editor of the article harvest section of the EWG-MCDA newsletter. The announcement was brief but meaningful, leaving me both honored and responsible, and it set the tone for my active, sustained contributions.

Christine Huttin: My first relationship with the EWG-MCDA group started in 2016, when I had a discussion paper on stated revealed preference modeling for healthcare markets; my discussion with Prof Hämäläinen from Aalto university, and with Prof Veschera were very useful; I could advance different methodological issues and explore whether economic axiomatization could complement accuracy tests on economics and medical cognitive cues, used in judgement studies (e.g. lens model). The meeting in Paris in 2017 was also extremely useful, since I could interact with Canadian researchers, as Ontario Ministry of Health was interested by applications of the reversed conjoint algorithm on physicians; the methodology was considered for the legislative reform of the drug formulary for elderlies. It helped the paper with axiomatization of cost sensitivity cues (presented at Orahs, Oslo in 2018), and for other papers on cost sharing. this Paris meeting was also followed by a diner at the Polish Embassy and gave me the opportunity to speak and present my book on economics and medical decision making (Scholar Press, 2017). The director of the Polish Academy of Sciences invited me the next day to discuss the book and proposed to organize the next year a roundtable on quality issues in medicine, it was the first event where I presented some scoring methods on quality of drug care and a scientific cooperation between France and Poland on global health and quality in medicine was initiated in 2018. This cooperation has been continued till now with a recent event in June 2025, where Institute Curie in Paris and in Poland were involved.
I attended several EWG-MCDA meetings since 2016 and always enjoyed the encouragements, supportive discussions and challenging questions; these meetings also created friendships and supportive environments with scientific and cultural exchanges. As an important last event, I can mention Euro in Copenhagen in 2024, and the special session on MCDA in medicine; it lead to a very comprehensive review of MCDA methods used in Health Technology Assessments (HTAs) agencies and I could contribute with my comparative approaches between Shrinkable estimators and simulation with random price generators; this was a useful and important session on policy aiding tools to address the complexity of medical markets.

Francis Macary:
First steps on MCDA methods
When I joined the Research Institute on Agriculture and the Environment, CEMAGREF, which became INRAE in 2020, at the end of 2001, I began a research project on erosion processes in Normandy, France. From my initial bibliographic research, I realised that erosion processes had already been studied in Tunisia in a doctoral thesis by A. Laaribi, about decision aid. He had used the Electre III method to classify watersheds according to their degree of erosion. I was able to draw inspiration from this to develop a research project in small watersheds in France, where I planned to classify agricultural plots according to their level of erosion. One of my colleagues in our research unit had already acquired the Electre III and IV software at Lamsade before I arrived (at the time in the form of a 5¼" diskette). I began studying alone the principles of decision support and how this software works, using it in research projects, during some years. But at a certain time, I had many questions and the subtleties of the settings required consultation with specialists. So I wrote an email to Lamsade.
First exchange with Bernard Roy
Within an hour, I received a reply by email directly from Bernard Roy. At first, I was very surprised and honoured. He told me that he was very interested in my field research topic and suggested that I come and present it at the next EWG-MCDA meeting in Brussels in April 2009, organised by Yves de Smedt and Marc Pirlot. I was then able to speak directly with Bernard. He was then supervising the thesis from Juscelino Almeida-Dias with José Rui-Figueira. This thesis focused on the design of the Electre Tri-C model. Bernard suggested we work together. At the time, I was testing the prototype of this software and providing feedback to improve its performance. The four of us worked together for three years, published a very nice paper in Environmental Modeling & Assessment and a warm relationship developed between us.
Participation in the EWG-MCDA meetings
I then attended EWG-MCDA meetings on a very regular basis. The discussions allowed me to deepen my skills in decision support. I really enjoyed these exchanges between method and model designers and implementers like myself. The social day that Bernard held so dear was truly a catalyst for relationships. I very quickly appreciated these contacts, which proved very useful to me later on.
Other useful and enjoyable collaborations
When Irène Abi-Zeid reprogrammed all of the ELECTRE methods on the MCDA_Laval software, we agreed to proceed as we had previously done with LAMSADE. I tested this new software in various situations and shared my observations with Irène regarding areas for improvement. And this continued until I left the Institute as a researcher on 1 July 2025.
Another joint project within the group was the production of the book coordinated by Maria-Franca Norèse, Irène Abi-Zeid and Maria de Vicente y Oliva: 'Multicriteria decision-aiding interventions, published in 2023. But we had already discussed

the idea for this book on applications with Maria-Franca at the Turin meeting in March 2008! And then at every meeting we would say: right, let's start producing the book!
In this group, there is a sense of camaraderie and joy at reuniting that I have never experienced in other groups I have been part of. The seeds sown by Bernard Roy have grown into beautiful plants that are multiplying!

Benedetto Matarazzo: The first meeting of the EWG on MCDA that I attended was the one organized in Turin in 1977 by our dear departed Anna Ostanello.
Attending the meeting, I was immediately struck by the stimulating atmosphere and sincere friendship that existed. Many young scholars were present, sitting next to well-known professors, authors of important papers or in quotes from some essential books. Above all, I was struck by the warm welcome, the affability, the attention and respect with which Bernard Roy welcomed a young and unknown new participant. He asked for information about my work, my scientific interests warmly inviting me, at the end of the meeting, to take part in future group meetings.
Participation in that meeting was already crucial. It had, in fact, for me a fundamental impact, immediately directing my research interests towards a new one fascinating world, full of potential methodological developments and interesting real-world applications, and I attended most of the following meetings.
I immediately appreciated one of their main characteristics: long scientific discussions, often warm, even passionate, but always conducted with great respect for opinions of others, usually concluded with an appropriate and enlightening intervention by Bernard Roy. Afterwards, I willingly organized the 28th meeting of the Group in October 1988, of a residential nature, in a seaside hotel near Catania. I then also organized the 78th Group meeting in collaboration with Salvatore Greco, October 2013, and in September 2024 Salvatore Greco e Salvatore Corrente organized the 98th meeting again in Catania.
The friendly environment of these meetings was also demonstrated by the climate festive atmosphere that was established during dinners. Among other things, a nice and pleasant habit of composing a song on the spot was developed, to the tune of some well-known song, with the words spur-of-the-moment by groups of participants, and to dedicate it to the organizer for thank him for his valuable work. Another one a welcome initiative was to have all participants sign during the gala dinner the back of the meeting poster, retained by the organizers as beautiful remember. I also remember that during one meeting we improvised a telepathy experiment which was enormously successful and which even today remains in the memory of some of the group's veterans.
On my participation in one of the first meetings, sitting in a nice cafeteria with our late friend Jaap Spronk, we discussed the opportunity and realistic possibility of organizing a Summer School on MCDA. Thus, we organized the International Summer School on MCDA in the summer of 1983, as a residential course at a beautiful hotel in Acireale, lasting two weeks, with a large number of participants, and with the most prestigious specialists as professors. The success of this SS, born as a filiation of our Working Group, led to its institutionalization, and is still organized periodically with the same format. In 2001, again in Catania I organized with Salvatore Greco the seventh edition of this SS.
Nevertheless, we soon began a long and fruitful scientific cooperation with the Technical University of Poznan, with Roman Slowinski and his much-appreciated group, a collaboration that has continued for more than forty years, and now in its third generation of scholars, so active in the field of MCDA at all levels.

Maria Franca Norese: My first EWG-MCDA meeting was in Turin, September 1977, and the first not "at home" was in Annecy, October 1978.
During 100 meetings, the EURO Working Group MCDA has generated a lot of knowledge about procedures that can improve communication with decision makers, decision process actors and stakeholders, to facilitate problem understanding and decision. The distinction between decision-making and decision aid, the roles of the different actors of a decision process and the concept of preference were the head of several discussions. The present quick development of the generative AI methodologies is promoting the view that Ai can support more holistic decision-making.
The group and the knowledge the group has generated mean to me an effective obstacle to avoid a return to some old ideas of the last century, such as the role of decision theory in the thirties' and of optimisation in the fifties' (and perhaps later) in relation with "automatic or semi-automatic" decisions.
I would share with all the members of the EWG a memory of two different moments, which clearly document the spirit of our meetings.
The first is a round table on "What are characteristic features of the methodological contribution of group members to MCDA", which was organized on the first day of the EWG-MCDA meeting at Annecy (March 2015) on Honour of Bernard Roy. It was interesting and, as a significant moment, we had the opportunity to directly say to Bernard how he and his way of thinking and working had had (and have) a strong influence on our life.
The second was at the end of the EWG-MCDA meeting in Viterbo (March 2003). In addition to the official programme, Antonino Scarelli organized a special kind of wine tasting, to satisfy the Bernard's interest in good Tuscany wines (above all the "Brunello of Montalcino" and the "Nobile of Montepulciano"). A small group of participants travelled for a day in Tuscany with Antonino as the driver of a minibus: Pienza, Montepulciano, Montalcino and Chiusi-Chianciano Terme, where Bernard, his wife and me returned home by train, at the end of a very interesting meeting. A fun and educational wine testing was organised buying Tuscany cheese, to better distinguish wines during the test, and then going to the headquarter of the "Consorzio del Nobile Vino di Montepulciano" where we tasted all the special wines of a Bernard's list (with year and specific winery). A shared multicriteria decision was one of the results.

Lefteris Siskos: My first EWG-MCDA was No. 77 in Rouen. Gloomy the days there, few people did I know - I was feeling like a stranger. Presenting in front of B. Roy, R. Slowinski and S. Greco, who sat in front of me in a line only heightened my

anxiety. However, after this 20-minute endeavour and the challenging questions afterwards everything began to brighten. I met new people, received a warm hug and was introduced into this companionship.
Now, the years have passed, and the bonds have only grown stronger. Every new meeting feels like an opportunity for fun, exploration, research exchange and good times. I am truly grateful for the privilege of being part of a research group, so strongly founded, so carefully protected and preserved and so naturally taken care of and evolved in the years. Thank you, beautiful people, for all these beautiful moments.

Roman Słowiński: My academic adventure with Multiple Criteria Decision Aiding (MCDA) started in 1980, when I came from Poland to LAMSADE at the University of Paris Dauphine for a six-month research stay. I was invited by Bernard Roy, Director of LAMSADE, whom I had first met at the AFCET Congress in Versailles in 1977. At that time, I was working on project scheduling under multi-category resource constraints, and Bernard Roy was for me the leading French reference in this topic. Upon arriving at LAMSADE, however, I noticed that Bernard was shifting his scientific interest from scheduling to MCDA. This encouraged me to take an interest in the field, and as a result, the article I wrote during my stay in Paris dealt with multiple-criteria project scheduling – probably one of the first in the literature to formulate the scheduling problem as a multiple-criteria optimization. At LAMSADE, besides Bernard, there were two colleagues who strongly stimulated my interest in MCDA: Eric Jacquet-Lagrèze and Yannis Siskos. Their enthusiasm in discussing MCDA, together with many inspiring conversations with Bernard Roy, definitively redirected my research interests toward the methodology of MCDA. In 1982, I participated in the 16th Meeting of the EWG in MCDA in Dijon, organized by Michel Prévot. One year later, in 1983, I organized the 18th Meeting in Poznań – during those difficult times when Europe was still divided by the "Iron Curtain." Later meetings were also held in Poznań in 1994 (39th), 2007 (65th), and 2025 (100th). Bernard Roy became both my mentor and my friend, on academic as well as personal levels. I became most familiar with his methodological proposals when translating his 1985 book "Méthodologie Multicritère d'Aide à la Décision" into Polish, and when assisting Marc McCord with its English translation. In total, I participated in 77 of the 100 meetings of the EWG on MCDA. My engagement was acknowledged by Bernard Roy, who in 2007 asked me to join the coordination of the group, which I co-led for the following 18 years. For me, the EWG on MCDA has been the place where I initiated almost all the important collaborations of my life: with Jacques Teghem, and later Philippe Fortemps from the Faculté Polytechnique de Mons; Eric Jacquet-Lagrèze, and later Vincent Mousseau and Daniel Vanderpooten from LAMSADE; Benedetto Matarazzo from the University of Catania; José Figueira from the Technical University of Lisbon; Lucien Maystre and Dominique Bollinger from EPFL Lausanne; and Yannis Siskos and Constantin Zopounidis from the Technical University of Crete in Chania. Our collaboration in research forged friendships over the years – a precious dimension of collaboration, ensuring mutual trust. Last, but by no means least, was my collaboration with Salvatore Greco from the University of Catania, introduced to me by Benedetto Matarazzo in 1991 as a candidate for a PhD in Poznań. With Salvatore, I embarked on an extraordinary journey across many innovative topics in MCDA, including the Dominance-based Rough Set Approach, Robust Ordinal Regression, Granular Computing, and 7-valued Logic. Many of my PhD students benefited from cooperation with Salvatore – including Miłosz Kadziński – and I also had the privilege to work with Salvo's brilliant PhD students, Salvatore Corrente and Maria Barbati. My experience shows that over its 50-year history, the EWG on MCDA has been an incubator of extremely fruitful cross-country collaborations.

Jacek Szybowski: My first EWG-MCDA meeting was the 89th Meeting 11-13.04.2019, Trento, Italy. The coming meeting in Poznań will be my 6th one. For me, the EWG-MCDA group are colleagues who share the same scientific interests, helping each other develop. It is hard to choose just one spectacular moment from the meetings, but I have very fond memories of the trip around Crete in 2022 - especially the Vai Beach.

Alexis Tsoukias: The first meeting I attended was in October 1987 in Torino (the 26th) organised by Anna Ostanello (at that time my PhD supervisor).
For a long time the EWG meetings have been a forum of scientific discussion, unconventionally organised since there was no time bound. It is not the case any more, but remains a group of good friends to meet.
In March 1989 I attended the meeting organised in Dijon (the 29th). At that time it was possible to ask for long presentations (40 minutes) and since I was presenting my PhD findings I asked for this option. I got it and my presentation was scheduled for Friday morning. At that time often slides were hand written. I had some printed slides, but since I was supposed to talk on Friday I was planning to finish my presentation during the day of Thursday. I reached Dijon after a complicate overnight train journey, but when I finally arrived there I have been asked to move my presentation at the beginning of the whole meeting, practically a couple of hours later. I could not say no and instead of having lunch I wrote (by hand) my slides and met the deadline. At the end Bernard (Roy) and Philippe (Vincke) came to tell me that they very much appreciated my work and wanted to learn more. Thanks to that improvised presentation I got a post-doc with Philippe and in 1993 the CNRS position at the LAMSADE which I hold until today.

Aida Valls: My first attendance to an MCDA meeting was in Brussels in 2009, in an event organized by Yves de Smet. I had met Ives in Catania in the group summer school back in 2000, when I was doing my PhD. In that workshop I could meet many people of the MCDA community, and I appreciated very much the friendliness in the group, the openness to researchers from other disciplines, as well as the long time for discussions during the workshops, which is not so usual in regular conferences. I remember I was surprised, at first, about the double language use in the group: French/English. After that meeting, I've attended about a dozen more and I also had the incredible opportunity of organizing the 75th meeting in

Tarragona (Catalonia) in 2012. Welcoming the group members to my city was a very special occasion for me, and a great opportunity to strengthen collaborations with several of the EWG-MCDA groups. During those years, I've been able to work with Prof. Slowinski in some projects. He also provided me the possibility of other collaborations with the Poznan group, which have helped a lot to make the ITAKA research group stronger. I'm really happy of having attended the MCDA school in 2000, which I found by chance when searching for information about decisions in the ancient web browsers of that time!

Isaak Vryzidis: My first meeting, which I attended, took place in Padova from April 20 to 21, 2017. It was during this time that I transitioned from structural engineering and construction management to the field of decision-making. The first session, chaired by Roman Slowinski, featured three presentations: the first by Professor José Rui Figueira, the second by Salvatore Greco, and the third by Professor Alexis Tsoukias. Additionally, Professor Bernard Roy was present and asked insightful questions. Professor Yannis Siskos then gave the first talk of the second session.
As one might imagine, I was thrilled to see these scholars, whose work I had been reading and which had greatly influenced my own research, presenting in person. Another easy guess would be that the session was conducted in French (except for Professor Tsoukias's presentation), and since I didn't speak French, I found myself wondering if it was time to start learning the language. Fortunately, most of the following presentations were in English, which made things easier. This experience marked the beginning of my journey with the EWG-MCDA working group, which has since become my academic "home." One thing that made this transition feel truly worthwhile was the spirit of the group and the people involved, who make the meetings not only a place for valuable discussion but also a reason to look forward to the next one.

Konstantin Zopounidis: My first EWG-MCDA meeting was in the October 1984 in Paris (Organizer B. Roy).
My participation in the EWG-MCDA has meant many interesting things.
My knowledge was enriched with insights from a scientific and human approach to decision-making. I met colleagues from different countries and different cultures in the field of scientific management and decision-making.
Within the framework of my active participation in the meetings of the EWG-MCDA, I organized the following meetings with the help of colleagues:

- 35th Meeting of the EWG-MCDA 26-27 March 1992, Chania (with J. Siskos).
- 47th Meeting of the EWG-MCDA 26-27 March 1998, Thessaloniki (with Y. Papadimitriou).
- 68th Meeting of the EWG-MCDA 2-3 October 2008, Chania.
- 94th Meeting of the EWG-MCDA 15-17 September 2022 (with Ch. Lemonakis).

Within the framework of my active participation in the EWG-MCDA, my department, the Department of Production Engineering and Management, awarded the title of Doctor Honoris Causa to two colleagues with major contributions in the field of MCDA:

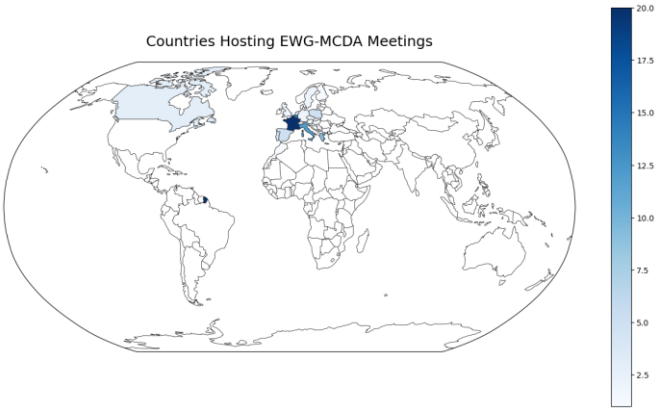
1. Bernard Roy (founder of the EWG), on 10 June 2002.
2. Roman Słowiński (Coordinator of the EWG), on 10 November 2008.

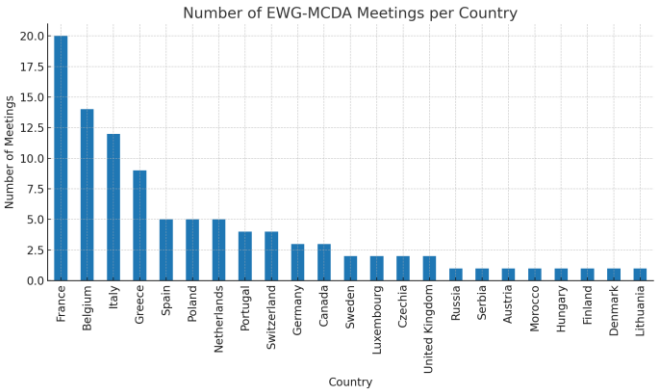
One of the most important moments of my presence in the EWG was when HELORS awarded a prize to Bernard Roy at the meeting in Annecy (March 26-28, 2015).

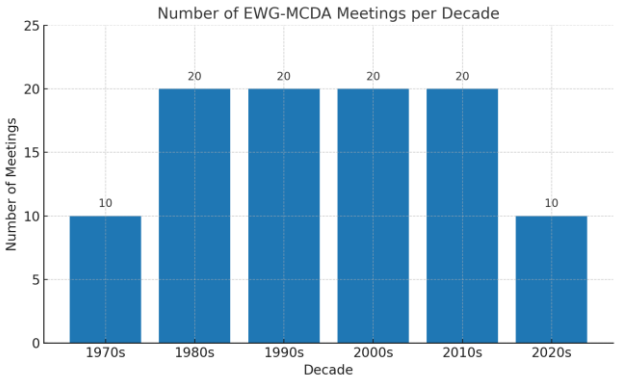
The EWG-MCDA Meetings

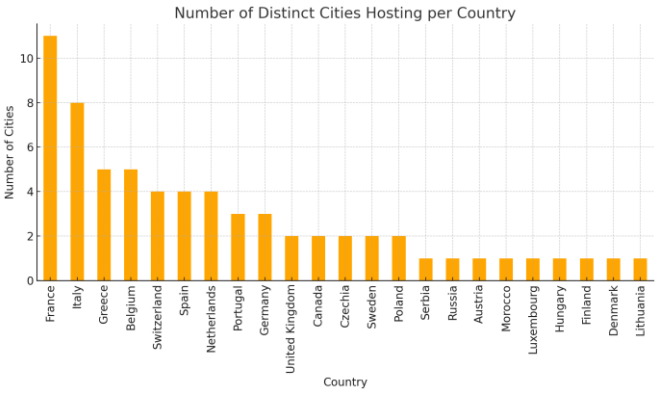
[1] The meetings of the EURO Working Group on Multiple Criteria Decision Aiding started in the **mid-1970s**, with the inaugural meeting held in January **1975**. Since then, the group has developed a tradition of organizing **two meetings per year**, which has been maintained consistently across the decades. The **only interruption occurred in 2020**, when, due to the COVID pandemic, planned meetings had to be canceled. Apart from this, the continuity of meetings has been unbroken. The year **2025 marks the 50th anniversary** of the group's activities.
[2] Over the decades, the EWG-MCDA community has established a rhythm of **spring and autumn meetings**. Historically, the **most common months have been October and March**, followed closely by **April and September**. In the **last decade**, however, the group has increasingly opted to associate meetings with **nicer weather**, which made **April and September the regular choices**. It is noteworthy that in the **early years** of the group, meetings were occasionally organized in **winter**, with one held in **December** and another in **January**, though such timing has not been repeated since.
[3] Over its history, the EWG-MCDA has been hosted in **23 countries**. The vast majority is in **Europe**, with only a handful of meetings taking place **outside the continent**. While this is formally a *EURO* Working Group, the spirit of the meetings is about a **European style of thinking in decision aiding**, rather than geographical constraints. Therefore, gatherings in **Canada** and **Northern Africa** were not exceptions, but rather natural extensions of this intellectual community. The map shows that meetings have been spread widely across Europe, with a clear **concentration in Western and Southern countries**. The **colors reflect frequency**, with multiple meetings organized in the same countries.
[4] Looking at the distribution of meetings across countries, **France** is by far the leader, with **20 meetings** over the years. This reflects its central role in the origins of the working group. The **second most frequent host** is **Belgium** with **14 meetings**, followed closely by **Italy** and **Greece**. **Spain, Poland, and the Netherlands** each hosted **5 meetings**, contributing to the group's continuity and geographic diversity. The group has also expanded its reach by holding **one or two meetings** in a wide set of other countries — including **Sweden, Luxembourg, Czechia, the UK, Russia, Serbia, Austria, Morocco, Hungary, Finland, Denmark, and Lithuania**. While these were less frequent, they are important for illustrating the **diverse and inclusive character** of the group.
[5] This heatmap highlights the **geographical spread** and the **temporal dynamics** of the meetings. France appears

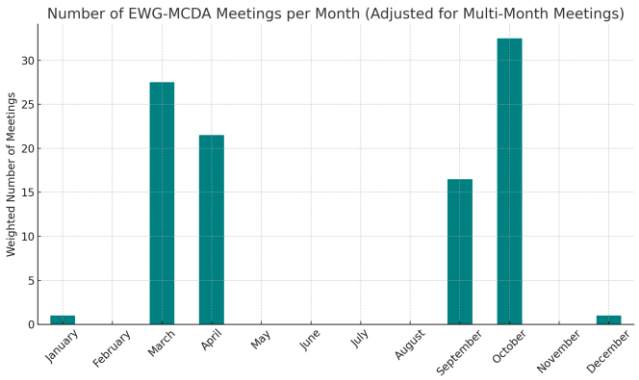
consistently from the late 1970s through the 2020s, often with one meeting every few years. Belgium is especially concentrated in the **first two decades. Italy, Greece, Spain, and Portugal** emerge later, but continue to host regularly also in the last years. **Switzerland, Germany, and the Netherlands** each hosted occasionally across the decades, often reflecting active local organizers. **Recent decades** show a broader distribution of meetings across many countries, with a noticeable **shift southwards and quite a few meetings** in central Europe. Non-European meetings remain exceptions, but it would be great to go outside Europe once in a few years.
[6] A good sign of diversity is the number of cities that hosted at least one meeting in each country. **France** is clearly the leader, with **11 different cities**. **Italy** follows with **8 cities**, also showing remarkable diversity, from the very north to southern cities. In turn, Greece and Belgium had 5 host cities, whereas in Poland there were only 2, despite 5 meetings overall.
[7] Overall, the group meetings were held in 65 different cities. Brussels and Paris are clear leaders with most hosted meetings. With its fourth conference, Poznań holds the third place. Six other cities, including our recent hosts Athens and Catania, organized three meetings.

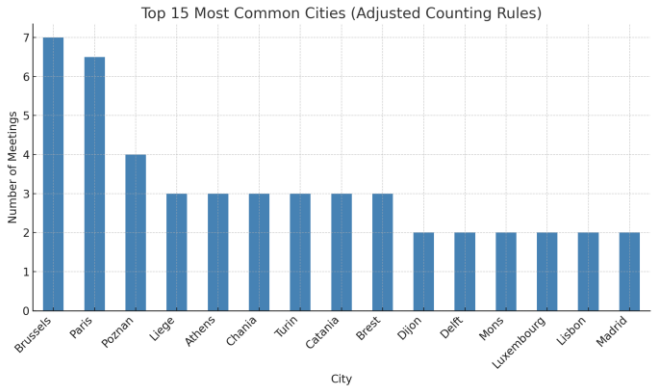












The complete list of all 100 meetings

100th: Poznan, Poland. September 11-13, 2025. Organizer: Poznan University of Technology – M. Kadziński, R. Słowiński. Topic: "From memories to the future"

99th: Venice, Italy. April 10-12, 2025. Organizer: Ca' Foscari University of Venice – M. Barbati. Topic: "Multicriteria Decision Aiding in Portfolio Selection".

98th: Catania, Italy. September 26-28, 2024. Organizer: University of Catania – S. Corrente, S. Greco. Topic: "Behavioural Issues in Multicriteria Decision Aiding".

97th: Athens, Greece. April 4-6, 2024. Organizer: University of West Attica – A. Spyridakos. Topic: "Social Well-being and Sustainability".

96th: Paris, France. September 21-23, 2023. Organizer: ESSCA Ecole de Management – P. Xidonas. Topic: "MCDA in Climate, Technology & Finance".

95th: Jaen, Spain. April 13-15, 2023. Organizer: University of Jaen – L. Martinez. Topic: "Application of multiple criteria decision analysis techniques in the Circular Economy context".

94th: Elounda, Greece. September 15-17, 2022. Organizer: Hellenic Mediterranean University, Technical University of Crete – Ch. Lemonakis, C. Zopounidis. Topic: "Multiple Criteria Decision Aiding and environmental risk management".

93rd: Belgrade, Serbia. April 7-9, 2022. Organizer: University of Belgrade – M. Stamenković. Topic: "Multiple Criteria Decision Aiding and Sustainable Development Goals".

92nd: Cracow, Poland. September 16-18, 2021. Organizer: Cracow University of Economics – E. Kubińska. Topic: "Multi-Criteria Decision Analysis as a transdisciplinary science".

91st: Budapest, Hungary (remote). April 29-30, 2021. Organizer: Corvinus University of Budapest – S. Bozoki. Topic: "Multiple Criteria Decisions under Uncertainty".

90th: Brest, France. September 26-28, 2019. Organizer: IMT Atlantique – P. Meyer. Topic: "MCDA for a sustainable development of the ocean".

89th: Trento, Italy. April 11-13, 2019. Organizer: University of Trento – M. Fedrizzi, M. Brunelli. Topic: "Pairwise comparisons (pros and cons)".

88th: Lisbon, Portugal. September 27-29, 2018. Organizer: University of Lisbon – J.R. Figueira. Topic: "MCDA user-friendly software tools for performance assessment".

87th: Delft, The Netherlands. April 5-7, 2018. Organizer: Delft University of Technology – J. Rezaei. Topic: "Socio-technical systems".

86th: Paris, France. September 21-23, 2017. Organizer: Polish Academy of Sciences, University Paris Dauphine – R. Słowiński, D. Vanderpooten. Topic: "Multiobjective Combinatorial Optimization".

85th: Padova, Italy. April 20-22, 2017. Organizer: University of Padova – Ch. D'Alpaos. Topic: "Sustainability Energy and the Environment".

84th: Vienna, Austria. September 22-24, 2016. Organizer: University of Vienna – R. Vetschera. Topic: "From Axioms to Applications: Bridging the gap between theory and practice in MCDA".

83rd: Barcelona, Spain. March 31-April 2, 2016. Organizer: ESADE Business School – N. Agell. Topic: "MCDA Applications to Business and Management".

82nd: Odense, Denmark. September 24-26, 2015. Organizer: Southeastern University of Denmark – K. Govindan. Topic: "Decision-making problems in sustainable development".

81st: Annecy, France. March 26-28, 2015. Organizer: Polytech Annecy-Chambery, LISTIC – V. Clivillé. Topic: "Decision problem in real economical context".

80th: Quebec, Canada. October 9-11, 2014. Organizer: Universite Laval – I. Abi-Zeid. Topic: "Transparency in Public Decision Processes".

79th: Athens, Greece. April 3-5, 2014. Organizer: National Centre for Scientific Research Demokritos – Z. Nivolianitou. Topic: "Multicriteria decision support in emergency and land use planning".

78th: Catania, Italy. October 24-26, 2013. Organizer: University of Catania – S. Greco. Topic: "Multicriteria risk assessment in finance".

77th: Rouen, France. April 11-13, 2013. Organizer: University of Rouen – S. Damart. Topic: "Multicriteria decision aiding and public management".

76th: Portsmouth, United Kingdom. September 13-15, 2012. Organizer: University of Portsmouth – A. Ishizaka. Topic: "MCDA in maritime, land and air transport management".

75th: Tarragona, Spain. April 12-14, 2012. Organizer: Universitat Rovira i Virgili – A. Valls. Topic: "MCDA and Artificial Intelligence: connections and challenges".

74th: Yverdon, Switzerland. October 6-8, 2011. Organizer: HEID-VD – D. Bollinger. Topic: "GIS, territorial and environmental management".

73rd: Corte, France. April 14-16, 2011. Organizer: University of Corsica – P. Oberti, D. Grandjean, A. Casabianca, A-M. Poli. Topic: "Spatial approaches of the multicriteria evaluation".

72nd: Paris, France. October 7-9, 2010. Organizers: V. Mousseau. Topic: "MCDA put into practice and preference elicitation".

71st: Turin, Italy. March 25-27, 2010. Organizers: Politecnico di Torino – M.F. Norese. Topic: “Decision aid applications in private and public organizations: today and in the future”.

70th: Moncton, Canada. September 24-25, 2009. Organizers: National Research Council Canada – N. Belacel, G. Corriveau. Topic: “MCDA in Health, Environment, and Energy”.

69th: Brussels; Belgium. April 2-3, 2009. Organizer: Université Libre de Bruxelles / SMG – Y. De Smet and Les Facultés Polytechniques de Mons / MATHRO – M. Pirlot.

68th: Chania, Greece. October 3-5, 2008. Organizer: Constantin Zopounidis.

67th: Rovaniemi, Finland. April 3-5, 2008. Organizers: R. Lahdelma, K. Miettinen, P. Salminen, A. Salo.

66th: Marrakech, Morocco. October 18-20, 2007. Organizers: Mohammed VI International Academy of Civil Aviation and National Airports Authority – A. Benallou, H. Yamnahakki. Topic: "Polymodality and Multiple Criteria Decision Aiding"

65th: Poznan, Poland. April 12-13, 2007. Poland. Organizer: Poznan University of Technology – R. Słowiński.

64th: Larissa, Greece. September 28-30, 2006. Organizers: N. Matsatsinis, P. Ypsilantis, G. Samaras. Topic: “Multicriteria Decision Support Systems”.
63rd: Porto, Portugal. March 30-31, 2006. Organizers: The University of Porto – M. Matos, J. Pinho de Sousa. Topic: “Performance Evaluations (Individuals, Institutions, Services, etc.)”.
62nd: Borlänge, Sweden. September 22-24, 2005. Organizer: Sven-Olov Larsson. Topic: “Infrastructure, Transport and Multicriteria Decision Aiding”.
61st: Luxembourg, Luxembourg. March 10-11, 2005. Organizers: R. Bisdorff, J.-L. Marichal, P. Meyer. Topic: “Preference Modelling”.
60th: Tilburg, The Netherlands. October 14-16, 2004. Organizer: B. Van De Walle. Topic: “MCDA in electronic markets, auctions and negotiations”.
59th: Brest, France. April 29-30, 2004. Organizers: J.-P. Barthelemy, Ph. Lenca. Topic: "Banking and finance".
58th: Moscow, Russia. October 9-11. 2003. Organizers: Institute of System Analysis, Russian Academy of Science – A. Petrovsky. Topic: "MCDA and Verbal Decision Analysis (In Memoriam of Oleg I. Larichev)".
57th: Viterbo, Italy. March 27-28, 2003. Organizer: University of Tuscia – A. Scarelli. Topic: "MCDA and economical evaluation of environmental goods".
56th: Coimbra, Portugal. October 3-5, 2002, Organizers: J. Climaco, J.R. Figueira, C. Henggeler Antunes.
55th: Leipzig, Germany. March 14-16, 2002. Organizers: M. Drechsler, F. Rauschmayer.
54th: near Brussels, Belgium. October 4-5, 2001. Organizers: M. Roubens, Ph. Vincke. Topic: "Aide multicritère à la décision et systèmes distribués".
53rd: Athens, Greece, March 29-30, 2001. Organizers - Training and Conference Center of the National Mortgage Bank of Greece – D. Diakoulaki. Topic: “Economy-Energy-Environment (3E) interactions”.
52nd: Vilnius, Lithuania, October 6-7, 2000. Organizers: H. Pranevichius, L. Sakalauskas, E. Zavadskas, A. Kaklauskas.
51st: Madrid, Spain. March 30-April 1, 2000. Organizers: G. Fernando-Barberis, J. Montero, C. Escribano-Rodenas, J. Gonzalez-Pachon.
50th: Cerisy-la-Salle, France, September 28-October 2, 1999. Organizers: B. Roy, D. Francois, E. Heurgon.
49th: Milan and Como, Italy, March 18-19, 1999. Organizers: A. Colorni, A. Tsoukias.
48th: Quebec, Canada, September, 24-25, 1998. Organizers: J.P. Martel, M. Belanger, I. Abi-Zeid, A. Guitouni.
47th: Thessaloniki, Greece, March 26-27, 1998. Organizers: C. Zopounidis, Y. Papadimitriou.
46th: Bastia, France, October 23-24, 1997. Organizers: B. Fustier, P. Oberti.
45th: Celakovice, Czechia, March 20-21, 1997. Organizers: D. Gluckaufova, M. Cerny, V. Safarova.
44th: Brussels, Belgium, October 3-4, 1996. Organizer: Ph. Vincke.
43rd: Brest, France, March 21-22, 1996. Organizers: J.P. Berthelemy, S. Garlatti, G. Le Gall, P. Saunier.
42nd: Namur, Belgium, October 12-13, 1995. Organizers: J.P. Leclercq, J. Fichefet.
41st: Lausanne, Switzerland, March 16-17, 1995. Organizers: L.Y. Maystre, J. Pictet.
40th: Paris and Bordeaux, France, October 6-7, 1994. Organizers: O. Lavialle, B. Roy, Ch. Vidal.
39th: Poznan, Poland, April 7-8, 1994. Organizers: R. Słowiński, J. Weglarz, P. Czyzak, A. Jaszkiewicz.
38th: Ispra, Italy, October 7-8, 1993. Organizer: M. Paruccini.
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36th: Luxembourg, Luxembourg, October 15-16, 1992. Organizer: R. Bisdorff.
35th: Chania, Greece, March 26-27, 1992. Organizers: J. Siskos, C. Zopounidis.
34th: Marseille, France, October, 1991. Organizer: R. Cusin.
33rd: Prague, Czechia, March 14-15, 1991. Organizer: D. Gluckaufova.
32nd: Stuttgart, Germany, October 4-5, 1990. Organizer: W. Habenicht.
31st: Delft, The Netherlands, March 22-23, 1990. Organizers: R.M. Cooke, F.A. Lootsma.
30th: Fribourg, Switzerland, October 5-6, 1989. Organizer: J. Pasquier.
29th: Dijon, France, March 9-10, 1989. Organizer: M. Prevot.
28th: Catania, Italy, October 13-14, 1988. Organizer: B. Matarazzo.
27th: Mons, Belgium, March 24-25, 1988. Organizer: J. Teghem.
26th: Turin, Italy, October 1-2, 1987, Organizer: A. Ostanello-Borreani.
25th: Brussels, Belgium, March 26-27, 1987. Organizer: P. Kunsch.
24th: Aix-en-Provence, France, October 2-3, 1986. Organizer: B. Munier.
23rd: Rotterdam, The Netherlands, March 28-29, 1986. Organizer: J. Spronk.
22nd: Chania, Greece, October 10-11, 1985. Organizer: J. Siskos.
21st: Lisbon, Portugal, March 28-29, 1985. Organizer: L. Valadares-Tavares.
20th: Paris, France, October 18-19, 1984. Organizers: B. Roy.
19th: Liege, Belgium, March 15-16, 1984. Organizer: G. Colson.
18th: Poznan, Poland, October 14-15, 1983. Organizer: R. Słowiński.
17th: Basel, Switzerland, March 16-17, 1983. Organizer: R. Boschi.
16th: Dijon, France, October 21-22, 1982. Organizer: M. Prevot.
15th: Namur, Belgium, March 18-19, 1982. Organizers: J.P. Leclercq, J. Fichefet.
14th: Brussels, Belgium, October 15-16, 1981. Organizers: F. Droesbeke, Ph. Vincke.
13th: Madrid, Spain, March 26-27, 1981. Organizer: A. Cortes.
12th: Bochum, Germany, October 9-10, 1980. Organizer: H.M. Winkels.
11th: Paris, France, March 20-21, 1980. Organizer: G. Hirsch.

10th: Liege, Belgium, October 18-19, 1979. Organizer: L. Bragard.
9th: Amsterdam, The Netherlands, April 6, 1979. Organizers: P. Nijkamp, J. Spronk.
8th: Annecy, France, October 27, 1978. Organizer: J. Moscarola.
7th: York, United Kingdom, April 3, 1978. Organizer: B. Roy.
6th: Turin, Italy, September 23, 1977. Organizer: A. Ostanello-Borreani.
5th: Paris, France, April 22, 1977. Organizer: A. Roynette.
4th: Stockholm, Sweden, December 1, 1976. Organizer: B. Roy.
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2nd: Mons, Belgium, October 6, 1975. Organizer: M. Roubens.
1st: Brussels, Belgium, January 29, 1975, Organizer: B. Roy.

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EURO – 50Th Anniversary: A video to present our EWG- Multiple Criteria Decision Aid (MCDA) and invite new colleagues to join

Link: https://youtu.be/z_rxGzqWzt0

The video promotes the European Working Group on Multiple Criteria Decision Aiding (EWG-MCDA) by presenting its rich history, its current contributions and its vision for the future. The video highlights the origins of the group in 1975, focusing on its mission to promote collaboration between researchers, and stresses important milestones such as key meetings, influential publications and pioneering figures that have shaped the evolution of MCDA in Europe and worldwide.
It also presents the group's current activities, including regular meetings, workshops and international conference sessions, while showing ongoing research areas, such as advances in methodologies and real-world applications in various domains. Seven members of our Working Group demonstrate how it promotes collaboration, trains future decision scientists, and fosters knowledge sharing and innovation. Looking ahead, the video also outlines the group's vision for future, including the integration of emerging technologies such as AI and machine learning with MCDA to address more complex decision environments. It concludes with a call to action for potential members to join and contribute to the future of decision aid.

Credits for the video:

- Coordination of the video content: Marco Cinelli, Leiden University, The Netherlands
- Video editing: Association of European Operational Research Societies central office
- Members that contributed to the video content:

	Content item for the video Member
1	The **origins** of the group in 1975, focusing on its **mission** to promote collaboration between researchers. *Salvatore Greco*, University of Catania, Italy
2	**Trends** in the field, methodological developments and emerging technologies such as **AI and machine learning**. *Roman Słowiński*, Poznań University of Technology & Polish Academy of Sciences, Poland
3	The **group's current activities**, including **regular meetings**, workshops. *José Rui Figueira*, University of Lisboa, Portugal
4	Role in **summer schools**, contribution to other **international conference** (MCDM, IFORS, EURO) sessions. *Miłosz Kadziński*, Poznań University of Technology, Poland
5	**Educational initiatives** with hands-on work for the students. *Marco Cinelli*, Leiden University, The Netherlands
6	Real-world **applications in various domains**. *Iréne Abi-Zeid*, University of Laval, Canada
7	**Challenges** to guarantee the tools as tailored and as user friendly as possible. Call to action for **potential members to join** and contribute to the future of decision aiding. *Salvatore Corrente*, University of Catania, Italy

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Empowering Decision-Aiding: Insights from a PhD Course and the IDEA League Summer School

In contexts characterized by uncertainty, conflicting objectives and multiple stakeholders, decision-aiding processes cannot rely on single-criterion approaches. Structured methods are essential to ensure transparency, inclusivity, and robustness to complex choices. Two recent experiences supervised by prof. Alessandra Oppio and dr. Marta Dell'Ovo — the PhD course *"How to Support Complex Decisions: Approaches and Tools"* at Politecnico di Milano and the IDEA League Summer School *"Empowering Decision-Aiding: Evaluation Approaches to*

Complexity"— offered unique opportunities to test and refine interdisciplinary decision-aiding frameworks.

The PhD course, organized within the PhD School of Politecnico di Milano, has been designed to:

- introduce decision-aiding in both multi-actor and multi-dimensional contexts;
- provide analytical tools for facing and managing complex decision processes;
- define multidisciplinary evaluation frameworks;
- strengthen skills in prioritizing objectives, actions, and alternatives over time;
- develop competences for anticipating and measuring impacts of decisions.

Thanks to the guest lecturers provided by **Prof. Mario Calderini** (Politecnico di Milano, Director of the Tiresia research group) and **Prof. Maria Franca Norese** (Politecnico di Torino), the course has combined theoretical issues with hands-on exercises.

The methodological pathway has included three main steps:

1. **Value-Focused Thinking (VFT)**, in line with Ralph Keeney, to elicit values and define criteria based on stakeholders' needs rather than alternative-focused thinking.
2. **Value Proposition Canvas** and **Theory of Change** to creatively generate alternatives aligned with the elicited values.
3. **Social Multi-Criteria Evaluation (SMCE)**, developed by Giuseppe Munda, and specifically the SOCRATES (Social multi-criteria assessment of European policies) software, to compare alternatives with reference to both technical performances and stakeholders' opinions.

Students have acted as stakeholders in simulated decision-aiding scenarios, reflecting on trade-offs and conflicts among values. The final presentations covered diverse topics, from urban mobility to energy plants' location, sustainable tourism management, and Artificial Intelligence education.

As it has been acknowledged by Giuseppe Munda, who has joined as discussant for the final presentations, this combination of **VFT for value elicitation, creative tools for alternatives generation, and SMCE for evaluation** has proved to be effective in linking technical rigor with social legitimacy.

The IDEA League Summer School *"Empowering Decision-Aiding: Evaluation Approaches to Complexity"*, hosted in Piacenza Campus, Politecnico di Milano, brought together students from five leading universities — **Politecnico di Milano, TU Delft, ETH Zürich, RWTH Aachen, and Chalmers University**. The teaching team has included international faculty with expertise in decision analysis, urban planning, and sustainability, among them **Daniela Maiullari (TU Delft) and Martina Schretzenmayr (ETH Zurich)**.

The school has explored how structured decision-aiding can support urban planning in line with *Prospettiva Piacenza*, the city's strategic development framework, which identifies four key visions: Ecological City, Attractive City, Innovative City and Reliable City.

Students were asked to develop integrated urban scenarios combining these four visions, with a cross-cutting emphasis on **Nature-Based Solutions (NBS)** to address climate change, biodiversity, public health, and social equity.

The methodology has followed a clear sequence:

1. **Stakeholder Analysis** and **SWOT Analysis**, to identify strengths, weaknesses, opportunities, and threats from both institutional and community perspectives.
2. **Strategy definition**, derived from SWOT, to generate coherent sets of alternatives.
3. **Application of the SOCRATES software**, as a common analytical backbone, to evaluate scenarios against both technical performance and stakeholders' values.

Through lectures, site visits, collaborative mapping, and group work, students have learned to:

- design value trees and performance matrices;
- apply MCDA aggregation techniques;
- reflect critically on the transformative role of NBS in sustainable urban development.

The final outputs were scenario-based proposals for Piacenza's future, integrating ecological, social, and economic dimensions while remaining sensitive to stakeholder needs.

Despite their different contexts, the PhD course and the Summer School have converged on several methodological insights:

- **Multicriteria frameworks are strategic** in analysing complex decisions, allowing multiple perspectives to be systematically integrated.
- **Stakeholders involvement and values elicitation** ensure that choices are not only technically valid but also socially legitimated.
- **The SMCE methodological framework** emerged as a versatile and robust tool, capable of balancing technical assessments with qualitative stakeholders' inputs.
- **Scenario-building approaches differ by context**: while the PhD course has emphasized *Value-Focused Thinking* and creative tools to generate alternatives, the Summer School has grounded strategies in SWOT-derived analyses addressed to define innovative urban visions.

Both initiatives have confirmed the educational and operational potential of structured decision-aiding processes. By combining methodological robustness, multidisciplinary collaboration, and stakeholder engagement, students have been trained to work on real-world complexity and to design value-based solutions.

The integration of tools such as VFT, SWOT, and the SOCRATES software has demonstrated that decision-aiding is not only an analytical exercise but also a social process that can empower actors to navigate trade-offs, embrace innovation, and co-create resilient futures.

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MCDA Research Groups

MCDA at CeIDM-ML, Xi’an Jiaotong University, China

Xiuwu Liao (professor), Jiapeng Liu (professor), Zice Ru (PhD), Jiaxuan Jiang (PhD), Yan Wang (PhD), Gaoming Wang (PhD), Mengzhuo Guo (graduated), Qian Liang (graduated)

Introduction

The Center for Intelligent Decision-Making and Machine Learning (CeIDM-ML) , located in the School of Management at Xi’an Jiaotong University, houses a research team dedicated to the field of Multi-Criteria Decision Analysis, integrating management science, information science, and neuroscience. This team aims to leverage the strengths of decision science and artificial intelligence, constructing preference models from decision cases provided by decision-makers through preference learning. These models recommend reliable decision outcomes. The team's multi-criteria preference learning methods for complex decision scenarios offer both the theoretical assurance and interpretability of decision models, and the technical capabilities to represent dynamic factors and multimodal data. Concurrently, the team conducts behavioral experiments, incorporating behavioral data into MCDA to enrich the representation of individual preferences, enhance the interpretability and predictive accuracy of preference models, and deepen the understanding of decision-making behaviors. This facilitates the design and improvement of methods, systems, and operations, and guides personalized interventions. The team is committed to providing new perspectives, theoretical paradigms, and technological means for the research and application of MCDA. Their research achievements have been successfully applied in diverse scenarios, including corporate credit assessment, purchasing decisions, target interception, and financial portfolio optimization, demonstrating both academic value and practical significance.

Research Directions

- **Data-Driven Preference Learning for MCDA.** We focus on advancing data-driven multi-criteria decision analysis by addressing the evolving nature of decision factors and processes. We conduct research in areas such as feature selection, preference model construction, complex criterion handling, algorithm implementation, and application methods. To address the shift from traditional decision-making processes heavily reliant on decision-maker participation to a more data-driven approach, we propose targeted preference learning methods. These include preference learning based on feature selection, regularization frameworks, interactive criteria, and non-monotonic criteria, all designed to adapt to the changing dynamics of modern decision-making paradigms.
- **Bayesian Ordinal Regression for MCDA.** We focus on advancing multi-criteria decision analysis within Bayesian framework to enhance preference inference accuracy and reliability. Conventional MCDA models typically utilize linear programming to convert decision-makers' preference information into linear constraints, constructing a set of preference models that align with stated preferences. While effective in reducing uncertainty during preference inference, this approach fails to account for potential biases in decision-makers’ preferences. Moreover, deriving preference models through linear programming overlooks the likelihood principle, which is fundamental to inference processes. To address these issues, our team has developed a series of Bayesian Ordinal Regression methods, establishing a fully probabilistic framework to tackle choice, ranking, and classification problems in MCDA.
- **Sequential Preference Learning for MCDA.** We advance multi-criteria decision analysis by introducing a Bayesian interactive preference elicitation framework that efficiently captures decision-makers' preferences within limited interaction rounds. A key innovation is an adaptive questioning policy based on Monte Carlo Tree Search (MCTS) within a finite Markov decision process, designed to maximize cumulative uncertainty reduction. Unlike conventional methods prone to shortsightedness, our approach accounts for long-term impacts by prioritizing informative question trajectories. Additionally, we leverage variational Bayesian inference to accelerate preference estimation to under one second, enabling real-time adaptive questioning. To enhance stability, we incorporate the reparameterization trick, mitigating high-variance issues. Empirical evaluations on real-world and synthetic datasets demonstrate its superiority over baseline methods, validating its effectiveness in optimizing preference elicitation in complex decision-making scenarios.
- **Dynamic Preference Learning for MCDA.** We focus on advancing multi-criteria decision analysis under dynamic preference conditions to enhance model adaptability and decision support accuracy. Traditional MCDA frameworks assume static preferences, limiting their adaptability. To overcome this, our team proposes a probabilistic graphical learning approach based on linear Gaussian state-space modeling, integrating Luce model and softmax techniques. This method captures dynamic environment-preference interactions through state transition equations and enables efficient parameter inference with reparameterization and Adam optimization. Compared to static models, our approach enables continuous decision-making in dynamic environments. Applied in military target interception, the system adjusts weapon priorities based on real-time environmental data. Validation in financial and supply chain management shows its generalizability and significant improvements in decision timeliness and accuracy.

- **Experimental studies with real-world subjects in MCDA.** We focus on advancing multi-criteria decision analysis by integrating behavioral data to enhance the fine-grained representation of individual preferences. While traditional MCDA methods typically rely on static preference information, our approach incorporates behavioral cues—such as pairwise comparisons, response time, and attention allocation—to gain deeper insights into decision-makers' cognitive processes. By capturing factors like cognitive effort and criterion importance, we aim to improve both model interpretability and predictive accuracy, revealing richer behavioral patterns that surpass the capabilities of conventional methods.

Research achievements

In the past decade, we have published over 10 academic papers in top management journals, including UTD24, INFORMS Journal on Computing, European Journal of Operational Research, Omega, Expert Systems with Applications, and ACM Transactions on Knowledge Discovery from Data. Our work on "Multi-Criteria Decision Theory, Methods, and Applications" was awarded the Second Prize for Scientific and Technological Progress in Shaanxi Province and the First Prize for Scientific and Technological Achievements in Shaanxi Higher Education Institutions. Additionally, Our work on "Data-Driven Preference Learning Methods for Value-Driven Multiple Criteria Sorting with Interacting Criteria" received the Li Huaizu Management Science Research Award and was a finalist for the INFORMS MCDM Junior Researcher Best Paper Award.

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Books

Multi-Criteria Methodology for the Dynamic Development of Tourist Areas: A Guide to Sustainable Tourism Strategies

Constantin Zopounidis & George Fakotakis

This book presents a structured and in-depth investigation into **visitor satisfaction in protected natural areas**, with a specific focus on **Samaria National Park** in Crete, Greece. Over the course of five years (2018–2022), Professors Zopounidis and Dr Fakotakis conducted a longitudinal study that included the disruptions caused by the COVID-19 pandemic. Their research offers a scientific framework for understanding how visitor experiences evolve over time and how park managers can respond with sustainable, data-driven strategies.

Samaria National Park is one of the most prominent natural destinations in Greece. As a UNESCO Biosphere Reserve and part of the EU’s Natura 2000 network, the park receives hundreds of thousands of visitors annually. Its rich biodiversity, cultural heritage, and striking geomorphology make it a focal point of Crete’s nature-based tourism. Yet, its status as a protected area also introduces strict regulations and conservation priorities, creating a complex management challenge: how to preserve the natural environment while ensuring high visitor satisfaction and supporting local economic development.

The book begins by describing this context in detail, including the park’s history, legal framework, tourism infrastructure, and socio-economic significance. The village of Agia Roumeli, for instance, has evolved from a self-sufficient rural settlement into a seasonal tourism hub closely linked to Samaria’s hiking route. This transition reflects broader themes in the book—how tourism can reshape local economies, lifestyles, and land use in protected areas.

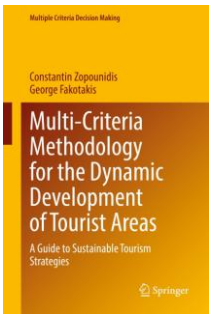
To analyze visitor satisfaction, the authors employ **Multi-Criteria Decision Analysis (MCDA)**, with a particular focus on the **MUSA method** (Multicriteria Satisfaction Analysis). MUSA is a powerful tool for modeling how different criteria—such as safety, staff, infrastructure, signage, and environmental quality—contribute to the overall visitor experience. The study utilizes responses from over **2,000** questionnaires completed by park visitors, allowing the researchers to quantify satisfaction levels and identify areas needing improvement.

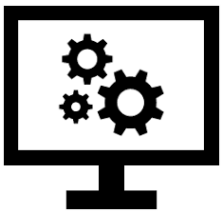
One of the study’s distinguishing features is its inclusion of **pandemic-era data**, offering rare insight into how external shocks like COVID-19 can reshape visitor behavior and preferences. During and after COVID placed emphasis on different factors. This shift also reinforces the need for adaptive management strategies that can respond to changing expectations.

The book does not stop at data analysis. It provides **clear, actionable recommendations** for park authorities, policy-makers, and tourism professionals. In addition, the authors emphasize the importance of integrating scientific methods into the routine management of protected areas. They advocate for an evidence-based approach that respects the unique ecological value of protected areas while enhancing the quality of visitor experiences.

Although the study focuses on Samaria National Park, the methodology and conclusions have **broad relevance**. Protected areas worldwide are under increasing pressure to attract tourists, support local economies, and maintain environmental integrity. This book provides a practical model for achieving that balance.

In summary, *Multi-Criteria Methodology for the Dynamic Development of Tourist Areas* is a significant contribution to the fields of **environmental management, sustainable tourism**, and **decision science**. It offers a compelling example of how long-term field research, modern analytical tools, and practical recommendations can be combined to support better management of protected natural areas.





Software

JECDM: a Java Framework for Evolutionary Computation and Decision-Making

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The Java framework for Evolutionary Computation and Decision Making (JECDM) is a novel free-to-use

computational framework written in Java, primarily intended to facilitate research on preference-based evolutionary multi-objective optimization. The homepage of this project is https://jecdm.cs.put.poznan.pl. In this contribution-in-brief, we provide a short overview of our developed software, where various characteristics are presented in what follows.

The general scope JECDM is a computational framework for developing and testing preference-based evolutionary algorithms for multi-objective optimization, with the central focus on interactive preference-learning methods [1, 2, 3, 4]. Nonetheless, due to the high generalizability of its components, it can be easily adapted to other tasks, such as executing insightful 3D visualizations.

JECDM as a computational framework JECDM is a series of well-organized source codes that a researcher can use to develop and test new methods. In brief, JECDM provides a comprehensive and versatile architecture. Thus, the codes are highly generalized and structured. They follow object-oriented programming with high-level abstractions, where concrete implementations – e.g., methods – emerge in as concrete parameterizations, settings, or compositions of lower-level general sources instead of being hard-coded. Additionally, the codes were designed to respect computational and memory complexity, ensuring that realizations of various tasks are highly efficient.

Learning JECDM Learning an architecture-oriented code may be difficult. Presenting simple, brief pieces of code that showcase some concrete usages would not allow for comprehensive learning of the framework. Therefore, JECDM is accompanied by a series of content-rich PDF tutorial documents that cover its various aspects, ranging from core fundamentals to practical code examples. They are available at the project's home page and associated Zenodo repository [5].

On self-sufficiency The framework was designed to be largely self-sufficient. Thus, the number of third-party libraries is reduced to a bare minimum, and JECDM relies mainly on the Java programming language. Only a few external and free-to-use libraries have been explicitly preselected and incorporated into this project.

Java programming language JECDM intends to provide a versatile architecture for conducting algorithmic-oriented studies. Satisfying objectives imposed by software engineering contradicts, to some extent, the general goals delineated by practitioners of algorithmics. Nonetheless, Java represents a satisfactory compromise of these two programming worlds. First, it is an excellent language for maintaining huge code developed in the spirit of software engineering. Second, Java virtual machines are fast nowadays, ensuring satisfactory runtime performance. Additionally, Java offers numerous means to optimize code from a formal perspective. Lastly, another benefit of Java is that it is platform-independent, which can be convenient on various levels, such as when sharing applications built using JECDM (or sharing the framework itself).

Offered functionality JECDM offers various functionalities related to development, prototyping, and testing new methods in the joint stream of Multiple-Criteria Decision Analysis (MCDA) and Evolutionary Multi-objective Optimization (EMO). These are organized into several modules categorized as Core and Extras, with the hierarchy imposed as presented in Figure 1. The modules can be briefly described as follows:

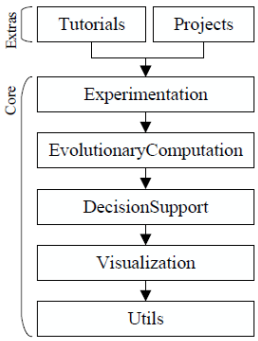

Figure 8 The hierarchy of the modules in JECDM

1. *Utils.* This module contains auxiliary components for diverse purposes, including custom data structures, statistical utilities, and random number generators. As these elements are relatively few and heterogeneous, they are consolidated within a single module.
2. *Visualization.* The following module provides a range of visualization tools, primarily implemented from scratch to ensure seamless integration with other components. It supports two rendering modes: 2D (based on Java Swing) and 3D (using OpenGL). The offered tools are highly flexible, accommodating various visualization types (e.g., 2D scatter plots, 3D heatmaps) and contexts (e.g., static data analysis or integration with an optimizer).
3. *DecisionSupport.* This next module in the hierarchy provides a systematic approach to building decision-support systems. It includes functionalities related to preference elicitation (i.e., capturing elements of an artificial or human Decision Maker (DM)'s value system) and preference learning (i.e., modeling elicited preferences using a chosen preference model). The module has been primarily designed for interactive preference-learning methods based on indirect judgments from the DM.
4. *EvolutionaryComputation.* This module concerns designing and testing evolutionary algorithms for single- and multi-objective optimization. Evolutionary processing is here abstracted as a sequence of functional blocks, enabling developers to configure and adapt components for efficient creation of new algorithms. This approach promotes code reusability and accelerates method development.
   The current release includes several ready-to-use representative a posteriori EMO algorithms (e.g., [6], [7], and [8]), which aim to approximate the entire Pareto front (PF), as well as preference-driven methods (e.g., NEMO-0 and NEMO-II [9], CDEMO and DCEMO [10], and IEMO/D [2]), which focus on approximating PF regions most relevant to the DM.

5. *Experimentation.* The last core module supports the evaluation of methods developed using JECDM. It allows the efficient creation and execution of experimental setups, including largescale examinations. Additionally, it offers tools for efficient and insightful post-processing of obtained results. Experiments involve specifying the algorithms to be compared, their parameter settings, test problems involved, performance indicators used to assess efficiency under various scenarios, as well as many other freely customizable parameters.
6. *Tutorials and Projects.* The last auxiliary modules belong to the *Extras category*. The *Tutorials* module includes source code for the examples discussed in the documentation, while the *Projects* module provides implementations of research projects developed using JECDM.

On the installation. The installation of JECDM is straightforward and can be done twofold. First, the project is maintained and developed using the IntelliJ IDEA IDE with the assistance of the Git versioning system. The project’s source codes, configuration, and other relevant files are shared on a public GitHub repository which one can clone to IntelliJ IDEA and use it as it is – the IDE should automatically configure everything. Alternatively, pre-built jars are available on the project’s home page. They are self-sufficient in the sense that they contain the extracted external dependencies required. Note that, however, they exclude the Tutorials and Projects modules, as the primary focus of these is to deliver sources for examination.

Origins, example uses, and opportunities JECDM is built on our past developments in the joint area of EMO and MCDA, as well as studies in the general field of operations research. Although the framework was not publicly available during these studies, it served as a vital instrument for designing novel optimization methods [2, 11, 12, 13, 14], visualization techniques [10, 15], and addressing real-world problems, including green supply chain design [16] and political redistricting [17]. Its public release in December 2024 allows the broader research community to reproduce, validate, and extend these developments, creating new opportunities to advance the joint EMOMCDA field.

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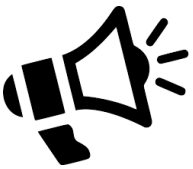


Announcements and Call for Papers

Call for the "Bernard Roy Award 2026" of the EURO Working Group on Multiple Criteria Decision Aiding

Policy
-The Bernard Roy Award of EWG MCDA (http://www.cs.put.poznan.pl/ewgmcda/) is a recognition conferred to a researcher under 40 years old for an outstanding contribution to the methodology and/or applications of Multiple Criteria Decision Aiding (MCDA).
-The award will be officially bestowed at the opening session of the EWG MCDA Autumn meeting (17-19 September, 2026 organized in Villigen and Zurich, Switzerland) if there is a suitable candidate. In this case, following a presentation of the competition by the chair of the Jury, the laureate will be invited to give a talk.

Award
The laureate then will receive the financial award (1,000 EUR) and the diploma.

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

Nominations
- Candidates can be nominated by any three members of the EWG MCDA. Becoming a member is free (please, send an email to Milosz Kadziński).
- A candidature for the Bernard Roy Award of EWG MCDA is composed of the nomination letter along with a recent and detailed CV, up to 5 best publications, as well as a self-description of the achievements up to 3 page long in a standard manuscript format. The nominations must be sent to the Jury chair by the due date of May 20, 2026.

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

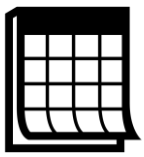
Jury
-The jury for the current edition is composed of Professors Constantin Zopounidis (chair), Sarah Ben Amor, Yves De Smet, Aida Valls-Mateu and Tadeusz Trzaskalik.

Timing
-Deadline for nominations: May 20, 2026.
-The Jury chair informs the EWG coordinators who invite the laureate to the meeting: July 31, 2026.
-Preparation of the diploma by the EWG coordinators.
Presentation of the laureate and her/his talk during the EWG MCDA 100th EWG MCDA meeting, 17-19 September 2026, Paul Scherrer Institute PSI – Laboratory for Energy Systems Analysis (LEA), Villigen and Zurich, Switzerland. An electronic copy of the laureate's presentation handed over to the EWG coordinators will be made available on the EWG on MCDA Web Site.

Applications should be sent to Professor Constantin Zopounidis at: kzopounidis@tuc.gr.

Previous BR award winners

- 2025: Maria Barbati, Cà Foscari University, Italy
- 2024: Mohammad Ghaderi, Pompeu Fabra University, Spain
- 2023: Eleftherios Siskos, Technical University of Crete, Greece
- 2022: Banu Lokman, University of Portsmouth; UK
- 2021: Matteo Brunelli, University of Trento, Italy
- 2020: Salvatore Corrente, University of Catania, Italy
- 2019: Miłosz Kadziński, Poznan University of Technology, Poland



Forthcoming meetings

(This section is prepared by Carlos Henggeler Antunes ch@deec.uc.pt)

25-26/10/2025
M-PREF 2025
Bologna, Italy
https://mpref2025.mpref.org/

26-29/10/2025
2025 INFORMS Annual Meeting
Atlanta Convention Center, Georgia, USA
https://www.informs.org/Meetings-Conferences/INFORMS-Conference-Calendar/2025-INFORMS-Annual-Meeting

4-6/11/2025
Green Innovations in Transport and Logistics Systems: Transforming Supply Chains for Sustainable Development
Pretoria, South Africa
https://nectar-eu.eu/

5-7/11/2025
5th Spanish Young Statisticians and Operational Researchers Meeting (SYSORM)
Sevilla, Spain
https://www.imus.us.es/congresos/5SYSORM/

10-13/11/2025
CPAIOR 2025: 22nd International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research
Melbourne, Australia
https://sites.google.com/view/cpaior2025/home

10-14/11/2025
LAGOS 2025 - XIII Latin American Algorithms, Graphs, and Optimization Symposium
Buenos Aires, Argentina
https://lagos.mat.br/lagos2025/

20-22/11/2025
The International Conference on Optimization and Data Science in Industrial Engineering (ODSIE 2025)
Istanbul, Turkey
https://odsie2025.refconf.com/

20-22/11/2025
HELORS 2025: 10th International Symposium and 32nd National Conference on Operational Research.
Chania, Crete, Greece
https://helors2025.eu/

1-2/12/2025
The International Conference on Decision Aid Sciences and Applications (DASA 2025)
Bahrain
https://dasa25.asu.edu.bh/

1-5/12/2025
Nordic Winter School on Advanced Stochastic Optimization
Trondheim, Norway
https://www.stoprog.org/nordic-winter-school-on-advanced-stochastic-optimization

6-7/12/2025
NeurIPS 2025 Workshop on "ML×OR: Mathematical Foundations and Operational Integration of Machine Learning for Uncertainty-Aware Decision-Making
San Diego, USA
https://mlxor-workshop.github.io/

18-23/1/2026
Zinal Winter School on Data Science, Optimization and Operations Research
Zinal, Switzerland
https://transp-or-academia.epfl.ch/zinal

19-23/1/2026
ENOG 12th Winter School 2026
Estoril, Portugal
https://netopt2026.campus.ciencias.ulisboa.pt/

24-26/2/2026
ROADEF 2026 - 27th edition of the annual conference of the French Society for Operational Research and Decision Support
Tours, France
https://roadef2026.sciencesconf.org/

8-10/4/2026
EvoCOP 2026 - The 26th European Conference on Evolutionary Computation in Combinatorial Optimisation
Toulouse, France
https://www.evostar.org/2026/evocop/

27-28/4/2026
EURO Practitioners’ Forum 6th Annual Conference
Warsaw, Poland
https://www.euro-online.org/websites/or-in-practice/euro-practitioners-forum-6th-annual-conference/

28-30/4/2026
OLA'2026 - International Conference on Optimization and Learning
Chania, Crete, Greece
https://ola2026.sciencesconf.org/

14-16/5/2026
ECCO XXXIX - CO 2026 Joint Conference on Combinatorial Optimization
Lisbon, Portugal
Will be available soon.

19-24/5/2026
MCDM'2026 - 28th International Conference on Multiple Criteria Decision Making
Marrakech, Morocco
https://mcdm2026.sciencesconf.org/

16-18/4/2026
101st Meeting of EURO Working Group on MCDA
Leeds, United Kingdom
https://www.cs.put.poznan.pl/ewgmcda/

27-29/5/2026
ICDSST 2026 12th International Conference on Decision Support Systems Technology
Playmouth, United Kingdom
https://icdsst2026.wordpress.com/

2-5/6/2026
OP26, SIAM Conference on Optimization
Edinburgh, UK
https://www.siam.org/conferences-events/siam-conferences/op26/

15-19/6/2026

LION20 - The 20th Learning and Intelligent Optimization Conference
Milan, Italy
https://www.lion20.org/

17-19/6/2026
IPCO 2026 – The 27th Conference on Integer Programming and Combinatorial Optimization
Padova, Italy
https://events.math.unipd.it/ipco2026/

2-5/6/2026
OP26, SIAM Conference on Optimization
Edinburgh, UK
https://www.siam.org/conferences-events/siam-conferences/op26/

29/6/2026-3/7/2025
Conference on Industrial and Applied Mathematics
Kaunas, Lithuania
https://ecmi2026.org/

12-17/7/2026
IFORS 2026
Vienna, Austria
https://www.ifors2026.at/home/

20-22/7/2026
Optimization 2026
Lisbon, Portugal
https://optimization2026.iseg.ulisboa.pt/

17-19/9/2026
102st Meeting of EURO Working Group on MCDA
Zurich, Switzerland
https://www.cs.put.poznan.pl/ewgmcda/

Spring 2027
103rd Meeting of EURO Working Group on MCDA
Bordeaux, France
https://www.cs.put.poznan.pl/ewgmcda/

11-14/7/2027
EURO 2027
Athens, Greece
https://euro2027athens.gr/

Fall 2027
104th Meeting of EURO Working Group on MCDA
Athens, Greece
https://www.cs.put.poznan.pl/ewgmcda/

2-5/7/2028
EURO 2028
Munich, Germany

Articles Harvest

(This section is prepared by River Huang river.huang@psi.ch)

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