

Round Table on artificial intelligence, Catania, 2024, March 23rd

At the University of Catania, the Center for Documentation, Research and Studies on the Culture of Risks organized a conference entitled "Risks, opportunities and critical issues of artificial intelligence" on March 23rd. It proved the growing interest and awareness towards Artificial Intelligence (AI), also due to its increasingly widespread use.



Benedetto Matarazzo and *Roman Słowiński* were among the Speakers.

After the institutional greetings to the civil, military and religious authorities present, Antonio Pogliese, President of the Center that organized the conference, presented the initiative, highlighting its relevance and the impact of AI on all human activities.

After reviewing the key concepts of AI, *Benedetto Matarazzo* discussed the number of players and technological tools involved in the process. He then examined the interpretability and explainability of AI outputs, delving into the "why" and "how" behind specific results addressing concerns about the opacity of AI, which can act as a "black box" in critical areas. After carefully considering the potential effects of AI on the workforce, safety concerns, and assigning responsibility in legal contexts, he emphasized that computer systems do not possess self-awareness. As a result, AI may be able to mimic human behavior but cannot distinguish between right and wrong. Therefore, we must proceed carefully with a comprehensive and ethical mindset in order to maximize the incredible potential of AI. It is essential to prevent humans from being overshadowed and to guarantee that the advantages of AI technologies are fairly distributed and available to everyone.

Roman Słowiński then delivered the main speech following *Benedetto Matarazzo's*, addressing the Rise, Opportunity, and Threats of AI in a thoroughly scientific manner. He initially conducted a thorough examination of the key aspects that define machine intelligence, specifically emphasizing Large Language Models and discussing their capabilities and constraints, as well as the financial investment required for their training. He emphasized the common misconception of

equating performance with competence. In his opinion "*machines will take over human consciousness in a behavioral sense only - they will learn our preferences and reactions*". Speaking about "dataism", i.e. shifting in authority from human decision-making to algorithmic processing, he stated that this is a clear threat to human free will, still underlining how "*the functioning of algorithms and the decisions they suggest should be understandable to humans*". In conclusion, we must therefore not rely on the machine's responses uncritically, but "*technological progress requires the growth of humans, not only in terms of their knowledge but also in spirit, which through conscience aids in discerning right from wrong*".

Monsignor *Luigi Renna*, Archbishop of Catania, delved deeply into the ethical and moral considerations of AI, emphasizing the importance of using this technology to assist rather than replace human beings. He expressed a desire for society to actively tackle and embrace the social and ethical dilemmas posed by AI.

Antonello Pireneo, director of the newspaper "La Sicilia", outlined the main impacts of AI on information management and on the profession of journalist. *Gennaro Gigante*, director of the Catania Branch of the Bank of Italy, focused on the great opportunities and problems encountered in the world of economy and finance following the availability of an enormous amount of data, and the spread of cryptocurrencies.



The meeting continued in the afternoon, chaired by Professor *Francesca Longo*, Vice-Rector of the University of Catania. The legal aspects and the need to develop homogeneous legislation were then discussed. In particular, *Biagio Andò*, Professor of comparative law at the University of Catanzaro, focused on the risks connected to the protection of data and personal identity, whereas *Felice Giuffrè*, Professor of constitutional law at the University of Catania and member of the Superior Council of Judiciary, spoke about the implications of the use of AI in law and jurisprudence. *Giovanni Cultrera*, Superintendent of the Teatro Massimo Bellini in Catania, illustrated the importance of music in the

development of the human person and the applications of AI in the musical field. Architect *Giuseppe Scannella* focused on algorithmics in architectural design and on the service that technology can render to progress and creativity. Finally, *Marcello La Bella*, Director of the Cyber Security Operations Center for Eastern Sicily, discussed the most relevant aspects of cybercrime, such as the much-feared deep fakes.

Finally, *Francesco Priolo*, the Rector of the University of Catania, read a message from Anna Maria Bernini, the Italian Minister of University and Research, before delivering the conclusions. She emphasized the importance of establishing regulations, such as the recent approval of the Regulation on Artificial Intelligence by the European Parliament, and highlighted the University and Research's vital role in ensuring that human decisions are always prioritized. The Rector emphasized the importance of nurturing a critical mindset in universities to prevent being overshadowed by artificial intelligence, whose capabilities are seemingly limitless thanks to its rapid calculations and vast interconnections. He then concluded by stating that what can never be typical of machines is the innate imperfection of human beings, which will always be superior to the perfection of any computer or robot.

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About the 97th Meeting of the EWG on MCDA in Athens, Greece

On April 4-6, 2024, at University of West Attica (Campus of the School of Public Health) Athens, Greece the 97th Meeting of the Euro Working Group on Multicriteria Decision Aiding was a great success in terms of organization and participation. The main theme of the 97th meeting of the EURO working group on Multiple Criteria Decision Aiding (EWG-MCDA 97) aimed at studying the application of multiple criteria decision aiding methods at Social Wellbeing and Sustainability. More than 40 papers of high-quality were submitted to the conference, with co-authors from 18 countries. Also, more than 60 scientists of very high academic background participated in EWG MCDA-97.

During the conference, a conferment and very emotional ceremony, organized by the University of West Attica, took place where Professor and Coordinator of the EWG MCDA Roman Słowiński honored with the title of PROFESSOR HONORIS CAUSA of the Business Administration Department of University of West Attica for his scientific and social contribution worldwide.

The rector of UniWA professor Panagiotis Kaldis, the Dean of the School of Administrative Economic and Social Sciences professor Georgios Pierrakos and the Associate President of the Business Administration Department professor Nikos Tsotsolas presented the rich scientific work of the honoree and his social activities and following the honoree was wrapped with the gown of the University of West Attica. In his speech, Professor Roman Słowiński thanked the members of the University of West Attica and referred to milestones and

important points regarding his scientific activation, his influences and the history of the EWG MCDA. The Ambassador of Poland in Greece Artur Lompart participated in this ceremony.



At the beginning of the conference, a memorial to professor and very active member of EWG MCDA team Vangelis Grigoroudis took place. Vangelis Grigoroudis passed away last November unexpectedly at the age of just 55 and is a significant loss for all of us. Professors Yannis Siskos and Nikolaos Matsatsinis referred to his academic work and one of his last research works submitted to the EWGMCD 97 was presented by his colleagues and co-authors Thanos Vavatsikos and Anastasia Saridou.



Following a round table took place related to MCDA and Health sector. Professor and Dean of the School of Public Health Elpida Pavi, Professor Costas Athanasakis, Professor Yorgos Goletsis, Dr Ioannis Agorastos and the General Secretary of the Greek Ministry of Health Aris Angelis presented issues and case studies related to decision making in Health sector. A very productive discussion followed for the benefit of the meeting participants and prospects for further scientific research in these fields emerged.

The detailed program of the meeting is attached. The detailed program and the Book of Abstracts are available at the Conference site (<http://ewgmcda97.uniwa.gr>).

Last but not least were the social activities of the meeting. The gala dinner was held at the restaurant housed in the historic Kostis Palamas building in the center of Athens (150 years old) and also a guided tour of the Acropolis and the old city of Athens was held on Saturday.

Looking forward for the Next Meeting of the EWG MCDA in Catania.

Athanasios Spyridakos
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CONFERENCE PROGRAM – DAY OVERVIEW
Thursday, April 4, 2024
University of West Attica Conference Center, Athens Campus
196 Alexandras Avenue Postal Code 11521, Athens
20 min of Presentation + 10 min of Q/A

11:30 – 12:45	Registration/Coffee
12:45 – 13:00	Opening session – welcome address
Session 1	Memorial session in honor of Dr. Evangelos Grigoroudis <i>Chair: Yannis Siskos</i>
13:00 – 13:30	<i>A Memorial Tribute to Professor Vangelis Grigoroudis: Biographical sketch, Review of Scientific Contributions, and impact in EWG-MCDA community</i> Yannis Siskos, Nikolaos Matsatstinis
13:30 – 14:00	<i>Spatial multi-store benchmarking analysis based on customer preferences</i> Anastasia Saridou, Athanasios Vavatsikos, Vangelis Grigoroudis
Session 2	MCDA in healthcare (Round Table) <i>Chair: Elpida Pavi, Kostas Athanasakis</i>
14:00 – 14:30	<i>MCDA in health: review and implementation framework</i> Kostas Athanasakis
14:30 – 15:00	<i>Criteria and "value framework" in the evaluation of complex health technologies</i> Ioannis Agorastos
15:00 – 15:30	<i>MCDA in Health Technology Assessment-HTA process: current status</i> Yorgos Goletsis, Garoufalia Naka
15:30 – 16:00	<i>MCDA as input in health policy decision-making: the international framework</i> Aris Aggelis
16:00 – 16:30	Coffee break

Session 3	MCDA and Sustainable Development	<i>Chair: Athanasios Spyridakos</i>
16:30 – 17:00	<i>Multicriteria social impact assessment of AI-based learning platforms</i> Andrzej M.J. Skulimowski	
17:00 – 17:30	<i>A multicriteria framework to assess social benefits in the reuse of public buildings</i> Alessandra Oppio, Marta Bottero, Danny Casprini, Giulio Cavana, Federico Dell'Anna	
17:30 – 18:00	<i>Using MCDA to better close the policy cycle</i> Marion LE LOUARN	

Papers submitted to discussion

A multicriteria framework for evaluating the sustainability performance of local governments: Application to French municipalities

Michael Doumpos, Alexis Guyot, Emiliios Galariotis, Constantin Zopounidis

Navigating ESG complexity: An in-depth analysis of sustainability criteria, frameworks, and impact assessment

Marianna Eskantar, Constantin Zopounidis, Michalis Doumpos, Emiliios Galariotis

Generated criteria use in a Decision Support System in Decisions regarding Circular Economy

Lykourgos Lalis, Nikos Tsotsolas

Strategic Benchmarking for Sustainable Energy Efficiency Investments: Methodology and Evaluation Framework

Charikleia Karakosta, Jason Papatthanasiou

Combination of SCOR model with multi-criteria approaches for supply chain performance evaluation in the Agri-food sector

George Sidiropoulos, Vasileios Zeimpekis, Nikos Tsotsolas

Applications Extended Hellwig's Method in Evaluating Sustainable Development in the Education Area

Ewa Roszkowska, Marzena Filipowicz-Chomko

20:30 – Banquet

23:30 Restaurant "To Kapodistriako" in "Kostis Palamas" building
Akadimias 48 & Sina str, Athens, 10562

Friday, April 5, 2024

Session 4	Applications I	<i>Chair: Isaak Vryzidis</i>
09:00 – 09:30	<i>Analyzing Influential Factors in Cause-Related Marketing</i> Konstantina Zacharaki, Jennifer Nguyen, Mònica Casabayó, Núria Agell	
09:30 – 10:00	<i>Triggering investments on energy storage solutions through an MCDA-based decision-making tool</i> Apostolos Arsenopoulos, Georgios P. Trachanas, Theodoros Tsalidis, Filippos	

Serepas, Ourania Markaki, Dimitris Askounis

10:00 – 10:30 *Evaluation of agrosylvicultural systems in southwestern France, using ELECTRE TRI-nC and ELECTRE III methods for decision support*
Odile Phelpin, Francis Macary

Papers submitted to discussion

Freight Logistics Hub Allocation using Analytical Hierarchy Process

Theodore Tsekeris, Georgia Skintzi

Development of an Intelligent Multi-Criteria Recommendation System for New Product Design/Improvement during its Life Cycle
Nikolaos Matsatsinis, Fotinti Kalafataki

Sufficiency conditions in an optimization problem with interval-valued objective function

Najeeb Abdulaleem

A MCDA approach for the evaluation of seismic retrofitting alternatives in existing buildings

Alexandra Katsiada, Isaak Vryzidis, Constantinos Repapis

10:30 – 11:00 Coffee break

Session 5	Theory and Methodology I	Chair: Constantin Zopounidis
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11:00 – 11:30 *A Bibliometric Exploration of Multiple Criteria Decision Aid (MCDA) and Clustering - Towards a Conceptual Taxonomy*
Pavlos Delias

11:30 – 12:00 *From Cognitive Maps to Value Trees*
Alexis Tsoukiàs

12:00 – 12:30 *A Holistic Approach for Determining the Most Critical Criteria in MCDA*
Evangelos Triantaphyllou and Juri Yanase

12:30 – 13:00 *On the theoretical bridging of MCDA & Wald theory*
Dimitris Thomakos, Panos Xidonas

Papers submitted to discussion

Equality Group Decision Making Processes

Maria Barbati, Sajid Siraj

Modifying Hellwig's Method for Multi-Criteria Decision-Making with Mahalanobis Distance for Addressing Asymmetrical Relationships

Ewa Roszkowska

Random Preference Model

Moha Ghaderi, Miłosz Kadziński

13:00 -14:00 Ceremony organized by University of West Attica (Honorary Ceremony)

14:00 -15:00 Lunch

15:00 – 15:30 **Regular Session: Life of the Group** Chair: Roman Słowiński

Session 6	Theory and Methodology II	Chair: José Rui Figueira
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15:30 – 16:00 *AI and Cost sensitivity simulators for Healthcare. Disease economic modeling and training in Machine Learning*
Christine C Huttin

16:00 – 16:30 *Deep aggregation of incomplete rankings in Multiple Criteria Group Decision Making*
Grzegorz Miebs, Adam Mielniczuk, Miłosz Kadziński

Papers submitted to discussion

Optimizing Wildfire Response: A Mathematical Programming Framework for Fire Suppression

José Rui Figueira, Bibiana Granda-Chico, Begoña Vitoriano

Multicriteria Modeling of Emotional Decisions in Art Market with PROMETHEE

Elżbieta Kubińska, Paweł Witkowski

Selection of a representative sorting model in a preference disaggregation setting: A review of existing procedures, new proposals, and experimental comparisons

Miłosz Kadziński, Michał Wójcik, Krzysztof Ciomek

Representation of preferences for multicriteria decision aiding in seven-valued logic

Salvatore Greco, Roman Słowiński

A multicriteria Group Decision Making framework for the evaluation of the sustainability and resilience of the long-term Swiss energy pathways

Eleftherios Siskos, He Huang, Peter Burgherr

16:30 – 17:00 Coffee break

Session 7	Applications II	Chair: Nikos Tsotsolas
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17:00 – 17:30 *Enhancing Sustainability in Mediterranean Cropping Systems via Group Decision Analysis*
Eleni Androulidaki, Stelios Rozakis

17:30 – 18:00 *An outranking decision-making framework for customer satisfaction benchmarking analysis in GIS environment*
Anastasia S. Saridou, Athanasios P. Vavatsikos

18:00 – 18:30 *An application of MCDA procedure to the location of radioactive waste deposit according to Legislative Decree*
Vincenzo Piscopo, Antonino Scarelli,

Papers submitted to discussion

Management of extremely satisfied or unsatisfied service recipients with the multi-criteria MUSA method: The case of postgraduate program graduates

Athanasios Spyridakos, Yiannis Psaromiligkos

Information Systems Strategy initiative in SMEs: Evaluating success using SEM Neural Network Analysis

Maria Kamariotou, Fotis Kitsios

Evaluation of critical success factors for public construction projects: Towards a MCDA framework
Zisis Papastamatis, Isaak Vryzidis

Saturday, April 6, 2024

10:00 – 13:00 Guided tour in Acropolis & Plaka Neighborhood

A walking guided tour of the picturesque parts of the old town of Athens (Plaka, Monastiraki, and Anafiotika) and the Acropolis of Athens (Parthenon, Erechtheion, Nike Temple, Dionysus Theater).

A heartfelt memory of three dear friends

Evangelos Grigoroudis (1968-2023)

It is with great regret that we inform you that Professor Evangelos Grigoroudis, Dean of the School of Production Engineering and Management of the Technical University of Crete (Greece), has passed away at the age of 55. He was married to Christina Diakaki, a professor at Hellenic Open University and father of two boys, Theodoros and Nikolaos.



Evangelos Grigoroudis was born in Flörsheim, Germany, in 1968. He received his diploma in Production and Management Engineering, in 1991, and he followed postgraduate studies at the Technical University of Crete, Greece, from where he received his M.Sc. and Ph.D. degrees, in 1996 and 1999, respectively, in the fields of decision sciences and operational research.

He was a Professor at the School of Production Engineering and Management of the Technical University of Crete (2002-2023) specializing in 'Quality Process Management' and Director of the Laboratory for Design and Development of Decision Support Systems (ERGASYA) of the Technical University of Crete.

He taught several undergraduate and postgraduate courses, such as Quality Control, Total Quality Management, Small and Medium Enterprises and Innovation, Service Quality and Customer Satisfaction, Services Marketing.

He received distinctions from the Hellenic Operational Research Society (HELORS), the Academy of Business and Administrative Sciences, the World Automation Congress, the Foundation of Ioannis and Vasileia Karayianni, the Technical University of Crete (Excellence in Teaching Award), and the State Scholarships Foundation of Greece.

His research work has been recognized internationally, as indicated by his inclusion to the top 2% of scientists worldwide in his scientific area, according to the most recent edition of the Stanford-Elsevier list of the world's most-cited scholars.

Evangelos Grigoroudis was Vice-President of HELORS (2015-2023) and national representative of HELORS in EURO and IFORS. He was an active member of the HELORS' Working Group on Multicriteria Decision Systems, the Production Management Institute of the Hellenic Management Association, the Sigma Xi Scientific Research Society, the New York Academy of Sciences, the American Society for Quality (senior member), the International Society on Multiple Criteria Decision Making, and the EURO Working Groups on Multicriteria Aid for Decisions and Financial Modelling.

He was associate editor of the scientific journals *Operational Research: An International Journal*, *Journal of Knowledge Management*, *Journal of the Knowledge Economy* (senior associate editor), *Journal of Innovation and Entrepreneurship* (senior associate editor), *International Journal of Decision Support Systems*, *International Journal of Social Ecology and Sustainable Development*, *International Journal of Food and Beverage Manufacturing and Business Models* and *Palgrave Communications* and member of the editorial board of the scientific journals: *International Journal of Information and Decision Sciences*, *International Journal of Information Systems in the Service Sector*, *International Journal of Multicriteria Decision Making*, *Journal of Marketing and Operation Management Research* and *World Journal of Applied Agricultural Sciences and Engineering*. He has acted as a reviewer for more than 70 scientific journals.

He was author/editor of 15 books on the measurement of service quality, business strategy and management, and the multicriteria decision aid approaches, as well as more than 170 articles in scientific journals, books and conference proceedings.

Since 1991, he conducted several market studies for firms and organizations, and he participated in a large number of research national and European projects.

Moreover, Evangelos participated in the organization of many scientific conferences and made numerous presentations at scientific conferences.

His research interests focused on service quality measurement processes, customer and employee satisfaction, performance evaluation, business excellence, operational research (evaluation methodologies and techniques), multicriteria decision analysis, data analysis (qualitative data analysis methods), and marketing (market and customer satisfaction surveys).

We will all remember his smile, the patience and efficiency with which he faced all problems and his gentle nature, which endeared him to us all. His presence and his work will remain engraved in our memory!

The void he leaves behind in science but especially in our hearts is irreplaceable.

Rest in peace our beloved friend.

Nikolaos Matsatsinis, Yannis Siskos, Constantin Zopounidis and Michalis Doumpos
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Pekka Korhonen (1944-2024)

Pekka Korhonen died on January 24th, 2024, at the age of 79. He was born in Kuopio, Finland, on November 26th, 1944. At the time of Pekka's birth, Finland had just come out of the war and the country was poor – and so was his family. Pekka lived as a child with his mother who was a single parent in Kuopio. He was to the best of our knowledge the only one of his childhood friends who decided to enter high school, let alone university. After graduating from high school, Pekka studied mathematics at the Helsinki University. Pekka completed his BSc and MSc degrees rather quickly in the late 1960s. Then he worked for a decade at the Helsinki University Computing Centre, honing his computer skills. After meeting Jyrki Wallenius in 1974 at a Mathematical Programming Conference in Eger, Hungary, he became interested in graduate studies in computational statistics, which he rapidly finished (in 1977) (with a dissertation "A Stepwise Procedure for Multivariate Clustering", Computing Centre, University of Helsinki).

Pekka and Jyrki began to collaborate on MCDM and group decision problems in 1978, while they both spent a year at Vaasa School of Economics, in Finland. Their exceptional collaboration lasted for 45 years, although for many years they were in different universities and different countries. Email came to the rescue. Their collaboration soon broadened to include Stanley Zionts, Herbert Moskowitz, Ralph Steuer, Murat Köksalan, and later Kalyanmoy Deb, who all were important collaborators to him. In fact, Murat wrote his PhD thesis in Buffalo on further developing an article dealing with convex preference cones, which Pekka, Jyrki, and Stan were about to publish. Murat has been joking that he had a career built around these convex preference cones.

Pekka Korhonen was a brilliant scholar. *Primus inter pares*. Tom Saaty called him one of the most intelligent, if not the most intelligent individual he ever interacted with. And Tom knew several Nobel laureates. Pekka Korhonen produced a creative stream of research. Probably his most influential work dealt with how one could move around the Pareto-optimal frontier utilizing man-machine interactive procedures. Pekka was also active in developing various decision support tools. Moreover, he saw already in the 1980's the necessity to pay more attention to the behavioral realities of decision-making. One of our early behavioral papers much later led to the "Rocky Road" book with Herbert Moskowitz. Pekka Korhonen has also been a prolific contributor to Data Envelopment Analysis, in particular the interface between MCDM and DEA, and one of the individuals, who contributed to the MCDM/EMO collaboration in the form of Dagstuhl seminars.

Pekka Korhonen joined the Helsinki School of Economics (HSE) faculty in 1979 and was appointed Professor of Statistics in 1988. He retired from this position in 2012 but remained active in research until recently. Pekka Korhonen served as President of the International Society on Multiple Criteria Decision Making from 1996 to 2000. He was one of the early laureates of the MCDM Society and received the Cantor Award in 1994. Another recognition was the choice of the 1986 Korhonen-Laakso article as one of the 30 most influential papers published by the European Journal of

Operational Research over its 30-year history. At every opportunity, Murat has been expressing the opinion that the approach developed in this article was one of the most creative MCDM approaches and he has used it in many applications. Jyrki and Pekka then developed an interactive software based on this approach and called it "Pareto Race." At the MCDM conference in Manchester, UK in 1988, they organized a competition for the fastest Pareto Race driver. It was a very creative competition and many scholars had the pleasure of experimenting with the software while having a lot of fun. Murat, and probably others, incorporated the Pareto Race software into their teaching and research right away, thanks to the competition.



Pekka served as President of the Finnish Operations Research Society in the 80's and was later appointed its Honorary President. Pekka also has awards and recognitions related to his early software development.

Pekka spent a year at the University of Georgia, hosted by Ralph E. Steuer. He also served as Project leader of the Decision Analysis and Support (DAS) Project at IIASA in Austria during 1997-1998. The project included Wojtek Michalowski, Gregory Kersten, Kaisa Miettinen, and Margareta Soismaa, among others. Pekka's international network of foreign scholars and friends was large. We have recently been corresponding with tens of his foreign friends, wanting to pay their respects.

In the words of Kalyanmoy Deb, "*Pekka's passing is a huge loss to the EMO-MCDM community ... We have lost a friend, collaborator, and most importantly an excellent human being. I have been so lucky to work with him closely.*" We could not have said it better.

Pekka was a good mentor to numerous graduate students. They all loved to work with him. Several friends have pointed out that Pekka had a brilliant, perhaps we could call it Finnish, sense of humour.

We feel privileged to have known Pekka and to have had the opportunity to collaborate with him for such a long time. We will miss him and remember him with love.

Pekka is survived by his wife Kaiju, seven children, 13 grandchildren, one dog, and a large circle of Finnish and international friends.

Murat Köksalan and Jyrki Wallenius
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Theodor (Theo) J. Stewart (1943-2023)

Theodor (Theo) J. Stewart passed away on November 29th, 2023. He was born in Cape Town, South Africa, on September 16th, 1943, where he lived most of his life. Theo's (first) BSc was in Chemical Engineering at the University of Cape Town. He then worked as a chemical engineer and continued part-time studies in Operations Research and Statistics through a distance education university in South Africa. Theo completed his second BSc degree in 1972, an MSc degree in Operations Research the following year, and a PhD in Mathematical Statistics (with a thesis "Bayes optimal experimental design for determination of a response surface maximum") at the University of Cape Town in 1976.

Theo retired from the University of Cape Town at the end of 2008, South Africa, having been a professor there since 1984, including two terms as Department Head. Theo told us that when he gave his inaugural professorial lecture, he was in good company. The person who was inaugurated at the same time was the surgeon who performed the first heart transplant in the world. In the 1960's the University of Cape Town was brought to world's attention by Christiaan Barnard, who performed the world's first heart transplant. After retiring, Theo served as a part-time Professor at Manchester University for about a decade, to be closer to his two daughters who reside in the UK. Theo was an operational researcher with broad interests but with a particular interest in multi-criteria decision analysis, multi-objective mathematical programming, and Bayesian statistics. Theo was one of the few researchers who conducted extensive research and published on real-life applications in industrial planning and resource management, notably fisheries and water-resource management. Theo collaborated with many researchers worldwide throughout his whole career. He was also very productive on his own and published many single-authored important research works. He touched so many lives. Upon receiving the sad news of Theo's passing away, many researchers flooded the Society list with emails expressing their sorrows, sharing memories and anecdotes, and praising him.

Theo Stewart wrote a highly popular book on *Multiple Criteria Decision Making: An Integrated Approach* (published by Kluwer Academic Publishers in 2002) jointly with Valerie Belton (University of Strathclyde, Glasgow). In total, Theo authored or coauthored more than 90 papers. One of the better known is Theo's paper (coauthored with Dutch colleagues) "Genetic Algorithm Approach to Multiobjective Land Use Planning" published in *Computers and Operations Research* in 2004.

Theo Stewart was generous with his time and agreed to take leadership positions. He served as Vice President of the International Federation of Operational Research Societies (IFORS) from 2004 to 2006, and President of the International Society on Multiple Criteria Decision Making from 2004 to 2008. He was the Editor-in-Chief of the *Journal of Multi-Criteria Decision Analysis* for over a decade starting in 2009. Under his term, the journal flourished and was restructured. During his academic life, Theo received numerous South African recognitions. Among others, he was a Fellow of the Royal Society of South Africa and a Fellow of the Statistical Association of South Africa. Yet, we knew Theo as an

internationally recognized Operational Researcher. He was awarded the Gold Medal of the International Society on Multiple Criteria Decision Making in 2008 and the Distinguished Service Medal of the Association of European Operational Research Societies (EURO) in 2013.

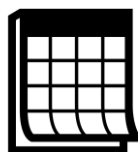


Theo organized and hosted the 13th International Conference on Multiple Criteria Decision Making in Cape Town in 1997. This was for many of us the first visit to this beautiful country. This visit sparked in Jyrki and his family an interest in South Africa, and safaris in particular. During this conference, Theo was one of the several people who convinced Murat to organize the 15th International Conference on MCDM and later shared his experiences generously.

Theo enjoyed a glass of good wine and visits to vineyards in the Western Cape region. He knew wines and in those days in South Africa, you did not have to pay more than 8 dollars per bottle (in a restaurant), even for good wine. We had the pleasure to tour with him some of the vineyards.

We met Theo for the last time at the Portsmouth MCDM Conference, in the summer of 2022. The conference participants admired Theo and appreciated it very much that he, despite his deteriorating health, attended the conference and gave a talk in a session chaired by Jyrki. In this session of "old-timers," three past MCDM Presidents gave presentations. In conclusion, we would like to quote and echo the University of Cape Town's obituary on Theo: "*Colleagues who worked closely with Professor Stewart will remember him for his commitment to mentorship, with a unique ability to recognise and cultivate the strengths of those he officially and unofficially mentored. He loved an academic discussion and always had the time to impart his wisdom to all. While his passing presents an immeasurable loss to the Department of Statistical Sciences, his legacy lives on through the immensity of the meaning he imparted on the lives of those around him.*" Theo is survived by his wife Sheena; their four children, seven grandchildren; as well as his extended family and circle of friends.

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Forthcoming meetings

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

28-31/5/2024

The 21st International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2024)

Uppsala, Sweden

<https://sites.google.com/view/cpaior2024/>

2-7/6/2024

27th International Conference on Multiple Criteria Decision Making (MCDM2024)

Hammamet, Tunisia

<https://mcdm2024.org/>

3-5/6/2024

GDN 2024 – The 24th International Conference on Group Decision and Negotiation (GDN 2024)

Porto, Portugal

<https://gdnconference.org/next/>

3-5/6/2024

CORS 2024 - Canadian Operational Research Society

London, Ontario, Canada

<http://CORS2024London.ca>

4-7/6/2024

MIC 2024 - 15th Metaheuristics International Conference

Lorient, France

<https://mic2024.fr/>

6-8/6/2024

ECCO XXXVII - 2024 The 37th annual conference of the

European Chapter on Combinatorial Optimization of EURO

KU Leuven-Gent, Ghent, Belgium

23-28/6/2024

MAPSP 2024: 16th Workshop on Models and Algorithms for Planning and Scheduling Problems

Kolding, Denmark

<https://event.sdu.dk/mapsp2024/>

24-28/6/2024

Discrete Choice Analysis: Predicting Individual Behavior and Market Demand

MIT (online)

<https://professional.mit.edu/course-catalog/discrete-choice-analysis-predicting-individual-behavior-and-market-demand>

25-28/6/2024

2nd Copenhagen School of Stochastic Programming

Copenhagen (Denmark)

https://www.math.ku.dk/english/calendar/events/cssp_2/

26-28/6/2024

EUROPT2024 - 21st Conference on Advances in Continuous Optimization

Lund University, Sweden

<https://europt2024.event.lu.se/>

26-28/6/2024

22nd Combinatorial Optimization conference, Southampton, UK, CO2024

Southampton, UK

<https://generic.wordpress.soton.ac.uk/co2024/>

30/6 - 3/7/2024

EURO 2024

Copenhagen, Denmark

<https://euro2024cph.dk/>

1-3/7/2024

35th International Workshop on Combinatorial Algorithms (IWCA 2024)

Ischia, Italy

<http://iwoca2024.di.unisa.it/>

3-5/7/2024

IPCO 2024 (25th Conference on Integer Programming and Combinatorial Optimization)

Wrocław, Poland

<https://ipco2024.ii.uni.wroc.pl/>

4-5/7/2024

ECSC-CMS, Joint European Conference on Stochastic Optimization and Computational Management Science Conference

Stockholm, Sweden

<https://cms2024.blogs.dsv.su.se/>

10-12/7/2024

2024 INFORMS Advances in Decision Analysis Conference (ADA 2024)

Aalto University, Espoo, Finland

<http://ada2024.aalto.fi>

14-18/7/2024

GECCO2024: 2024 Genetic and Evolutionary Computation Conference

Melbourne, Australia (hybrid event)

<https://gecco-2024.sigev.org/HomePage>

14-19/7/2024

50th Annual International Conference of the EURO Working Group on Operational Research Applied to Health Services (ORAHS 2024)

Turin, Italy

<https://orahs2024.di.unito.it/>

15-18/7/2024

MESS 2024 - Metaheuristics Summer School

Catania, Italy

<https://www.ants-lab.it/mess2024/>

21-26/7/2024

ISMP 2024: 25th International Symposium on Mathematical Programming

Montreal, Canada

<https://ismp2024.gerad.ca/>

23-26/7/2024

22nd Symposium on Experimental Algorithms (SEA24)

University of Vienna, Austria

<https://sea2024.univie.ac.at>

7-9/8/2024

Summer school on optimization, uncertainty and artificial intelligence

Hamburg, Germany

<https://www.trr154.fau.de/summer-school-2024/>

12-16/8/2024

31st IFIP TC7 System Modeling and Optimization

Hamburg, Germany

<https://www.conferences.uni-hamburg.de/e/ifip24>

14-16/8/2024

MOPTA 2024: Modeling and Optimization: Theory and Applications

Pennsylvania, USA

<https://coral.ise.lehigh.edu/~mopta/>

28-30/8/2024

18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2024)

Vienna, Austria

<https://www.incom2024.org/>

2-6/9/2024

The 30th International Conference on Principles and Practice of Constraint Programming

Girona, Catalonia

<https://cp2024.a4cp.org/>

3-6/9/2024

17th International Symposium on Algorithmic Game Theory (SAGT)

Amsterdam, The Netherlands

<https://www.cwi.nl/en/sagt-2024/>

3-6/9/2024

OR 2024 (GOR annual conference)

Munich, Germany

<https://or2024.de/>

4-6/9/2024

XIII International Workshop on Locational Analysis and Related Problems (IWOLOCA 2024)

Granada, Spain

<https://easychair.org/conferences/?conf=iwoloca24>

5-6/9/2024

ATMOS 2024: 24th Symposium on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems

London, UK

<https://algo-conference.org/2024/atmos/>

8-10/9/2024

ICCL 2024 - The International Conference on Computational Logistics

Monterrey, México

<http://www.iccl2024.com/>

8-11/9/2024

17th International Thematic Track/Workshop on Computational Optimization (CO23)

Belgrade, Serbia

<https://2024.fedcsis.org/thematic/co>

8-12/9/2024 ODS 2024

Badesi, Sardinia, Italy

<http://www.airoconference.it/ods2024/>

9-13/9/2024

Future Research in Combinatorial Optimization (FRICO 2024)

Magdeburg, Germany

<https://frico2024.ovgu.de/>

10-12/9/2024

UK OR Society. Annual Conference OR66

Bangor, UK

<https://www.theorsociety.com/events/annual-conference/>

11-13/9/2024

4th IMA Conference on Inverse Problems from Theory to Application

Bath, UK

<https://ima.org.uk/23503/4th-ima-conference-on-inverse-problems-from-theory-to-application/>

11-13/9/2024

42nd International Conference on Mathematical Methods in Economics (MME 2024)

Usti nad Labem, Czech Republic

<https://mme2024.ujep.cz/>

15-25/9/2024

EURO Summer Institute: Decision-making under uncertainty for commodities and financial markets

Forio d'Ischia, Italy

<https://esi2024.unibg.it/>

16-27/9/2024

Summer School Computational Optimization At Work 2024

Zuse Institute Berlin, Germany

<https://co-at-work.zib.de/>

18-20/9/2024

7th annual meeting of the EWG on Retail Operations

Vienna, Austria

<https://www.ewg-retail-ops.eu/>

22-25/9/2024

LOD 2024 10th International Conference on Learning, Optimization and Data

Tuscany, Italy

<https://lod2024.icas.events/>

25-27/9/2024

20th conference on Operational Research KOI2024

Brela, Croatia

<https://hdoi.hr/koi-2024/>

26-28/9/2024

**98th Meeting of EURO Working Group on MCDA
Catania, Italy**

<https://www.dei.unict.it/generico/ewgmcda98>

1-4/10/2024
Optimization and Wildfire
Luso, Portugal
<https://ow.dps.uminho.pt>

9-11/10/2024
ANTS 2024: 14th International Conference on Swarm
Intelligence
Konstanz, Germany
<https://www.uni-konstanz.de/ants-2024/>

14-15/10/2024
EURO Practitioners' Forum 5th Annual Conference
Coimbra, Portugal
<https://www.euro-online.org/websites/or-in-practice/euro-practitioners-forum-5th-annual-conference/>

14-16/10/2024
8th International Conference on Algorithmic Decision Theory
- ADT 2024
Rutgers University, USA
<https://preflib.github.io/adt2024/index>

19-20/10/2024
M-PREF 2024: 15th Multidisciplinary Workshop on
Advances in Preference Handling
Santiago de Compostela, Spain
<https://mpref2024.mpref.org/>

20-23/10/2024
2024 INFORMS Annual Meeting
Seattle, Washington, USA
<https://meetings.informs.org/wordpress/seattle2024>

28/10-1/11/2024
CLAIO 2024/CSMIO 2024
Guadalajara, Mexico
<http://www.smio.org/home-claio-2024.html>

3-5/11/2024
AFROS2024 - third triennial gathering of the African
Federation of Operations Research Societies
Tlemcen, Algeria
<https://afros2024.com/>

4-15/11/2024
EURO PhD School on Multiple Criteria Decision Making:
Methodologies and Applications to the Sustainable
Development Goals
Málaga, Spain
<https://eventos.uma.es/105882/detail/euro-phd-school-on-multiple-criteria-decision-making-methodologies-and-applications-to-the-sustaina.html>

5-10/11/2024
Research school on "Optimization models and methods for
challenging energy problems"
Erice, Italy

<https://omcep23.univ-perp.fr/index.php?page=home>

18-21/11/2024
DEA2024: International Conference on Data Envelopment
Analysis
Noida, Delhi, India
<https://dataenvelopment.com/dea2024/>

Spring 2025
99th Meeting of EURO Working Group on MCDA
Venice, Italy

22-25/6/2025
EURO 2025
Leeds, UK
<https://euro2025leeds.uk/>

Fall 2025
100th Meeting of EURO Working Group on MCDA
Poznan, Poland

Spring 2026
101st Meeting of EURO Working Group on MCDA
Leeds, United Kingdom



Books

Multicriteria Decision Aiding Interventions. Applications for Analysts

Maria Franca Norese, Maria A. De Vicente Y Oliva and Irène
Abi-Zeid
Springer series on "Multiple Criteria Decision Making"

The need for procedural and methodological approaches that are derived from practice has long been known and pointed out in the scientific literature. In this book, our aim is to contribute to the literature by proposing some practical Multiple Criteria Decision Aid (MCDA) real life applications that were conducted by analysts, some of whom are academic practitioners, while others are consultants or researchers in national or European research centres. This book was designed for analysts who are familiar with multi-criteria (MC) methods but seek detailed information and experience in the practical creation and validation of an MC model in real-life decision aiding interventions. In addition, it helps novice analysts appreciate the difficulty of decision aiding and use the available methods to reduce or control complicated conditions with the help of socio-technical approaches.

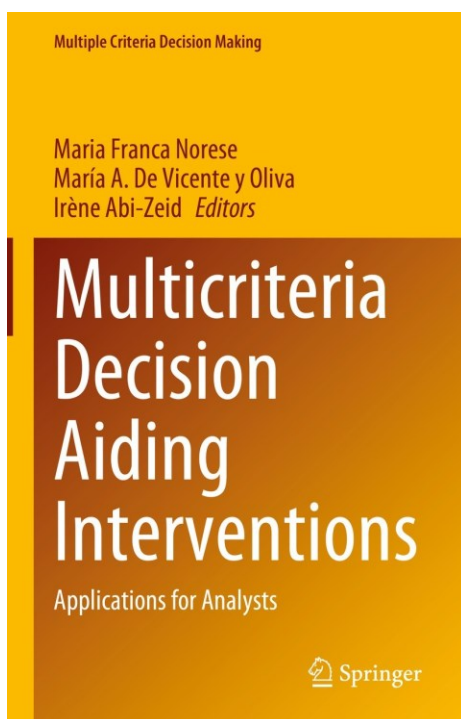
The element connecting the applications and chapters is based on the idea that an MCDA vision of a complicated problem situation can adopt different approaches to identify and deal with complexity elements and can produce different types of

results. Rather than describing how the MC methods were used or should be used, each chapter focuses on how these models and methods, when they are used to identify and control specific uncertainties and difficulties, can be adopted to reduce complexity and to ensure a harmonious and a rigorous MCDA intervention.

A "not easy" interaction with decision makers and actors of the decision process is described in all the cases, together with the adopted approaches, communication efforts and results. The authors' work environments and roles (whether more oriented to research or practice) have generated various languages to transfer the competences acquired during MCDA interventions in organisations. Time is often identified as a critical resource, and some problem situations, which implied long and expensive interventions, are described together with the main activities and tools adopted to reduce or control specific elements of complexity. The usefulness of tools that facilitate understanding and communication in the different steps of an intervention is described in all the chapters.

Some of the authors propose a case analysis and underline how difficulties and obstacles had been recognized in the MCDA intervention and dealt with. Other authors offer an analysis of decision problem classes and describe the approaches that were (and are) frequently adopted in these cases, the weaknesses of these approaches and related procedures, as well as the reasons underlying an MCDA intervention and the implementation of specific methodologies.

URL: <https://link.springer.com/book/10.1007/978-3-031-28465-6>



Announcements and Call for Papers

Call for the "Bernard Roy Award 2024" 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 (in 2024 organized in Catania) if there is a suitable candidate. In this case, following a presentation of the competition by the chair of the Jury, the laureate will be invited to give a talk.

Award

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

Eligibility

-The Bernard Roy Award of EWG MCDA shall be awarded for a body of work in MCDA, preferably published over the last decade. Although recent work will not be excluded, care shall be taken to allow the contribution to stand the test of time.

-The potential award recipient shall have a recognized stature in the MCDA community. Significance, innovation, depth, and scientific excellence shall be emphasized.

Nominations

- Candidates can be nominated by any three members of the EWG MCDA. Becoming a member is free (Please, send an email to [Milosz Kadziński](mailto: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, 2024.

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 Maria Franca Norese (chair), Salvatore Greco, Constantin Zopounidis, Yves De Smet, Luis Martinez.

Timing

-Deadline for nominations: May 20, 2024.

-The Jury chair informs the EWG coordinators who invite the laureate to the meeting: July 31, 2024.

-Preparation of the diploma by the EWG coordinators.

Presentation of the laureate and her/his talk during the EWG MCDA 98th EWG MCDA meeting, September 2024, University of Catania, Department of Economics and Business, Catania, Italy. 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 Maria Franca Norese at: maria.norese@polito.it.

Previous BR award winners

- 2023: Eleftherios Siskos, Technical University of Crete
- 2022: Banu Lokman, University of Portsmouth
- 2021: Matteo Brunelli, University of Trento
- 2020: Salvatore Corrente, University of Catania
- 2019: Milosz Kadziński, Poznan University of Technology

Special Issues

Annals of Operations Research

Special Issue on "Advances in Statistical Modelling for Social Science"

Submission deadline: May 31, 2024

Special Issue Editors:

Andrea Nigri, Department of Economics, Management and Territory, University of Foggia, Italy

Susanna Levantesi, Department of Statistics, Sapienza University of Rome, Italy

Leonardo Salvatore Alaimo, Department of Social Sciences and Economics of University of Rome La Sapienza, Italy

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Ensemble AI-Driven Metaheuristic Optimization in OR: Newest Contributions in Theory, Methods, and Applications"

Submission deadline: June 30, 2024

Special Issue Editors:

Mohammad Shokouhifar, Shahid Beheshti University, Iran

Alireza Goli, University of Isfahan, Iran

Zaoli Yang, Beijing University of Technology, China

Gerhard-Wilhelm Weber, Poznan University of Technology, Poland

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Game Theoretical Models and Applications (SING 18)"

Submission deadline: June 20, 2024

Special Issue Editors:

Encarnación Algaba, University of Sevilla, Spain

René van den Brink, Vrije Universiteit, The Netherlands

Giuseppe Caristi, University of Messina, Italy

Massimiliano Ferrara, University Mediterranea of Reggio Calabria, Italy

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Special Issue: Integrating Data Science and Decision Analytics"

Submission deadline: December 31, 2024

Special Issue Editors:

Victorial Chen, The University of Texas at Arlington, USA

Seoung Bum Kim, Korea University, Korea

Chen Kan, The University of Texas at Arlington, USA

Salih Tutun, Salih Tutun, Washington University in St. Louis, USA

Mike Mingcheng Wei, University at Buffalo, USA

Yuan Zhou, The University of Texas at Arlington, USA

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Multiple Objective Programming and Goal Programming: Sustainability and Beyond"

Submission deadline: May 15, 2025

Special Issue Editors:

Ayhan Özgür Toy, Yaşar University, Türkiye

Levent Kandıllı, Yaşar University, Türkiye

Hatem Masri, University of Bahrain, Kingdom of Bahrain

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Recent Trends in Operations Research and Game Theoretic Approach in Decision Making"

Submission deadline: June 30, 2024

Special Issue Editors:

S. K. Neogy, Indian Statistical Institute, India

R. B. Bapat, Indian Statistical Institute, India

K. Manjunatha Prasad, Manipal Academy of Higher Education, India

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Reliability Evaluation and Optimization of Supply Chain Resilience"

Submission deadline: June 30, 2024

Special Issue Editors:

Cheng-Ta Yeh, Fu Jen Catholic University, Taiwan

Ding-Hsiang Huang, Tunghai University, Taiwan

More details can be found [here!](#)

Annals of Operations Research

Special Issue on "Smart and Resilient Operations in the Age of Digitization"

Submission deadline: December 31, 2024

Special Issue Editors:

Jun Pei, Hefei University of Technology, China

Panos M. Pardalos, University of Florida, USA

More details can be found [here!](#)



Recent contributions in brief

Kazibudzki, PT., (2023). The uncertainty related to the inexactitude of prioritization based on consistent pairwise comparisons. *PLoS ONE* 18(9): e0290751. DOI: 10.1371/journal.pone.0290751

When the in/consistency in Pairwise Comparisons (PCs) is taken into consideration as the subarea of the Multi Attribute Decision Making (MADM) scientific field, it has many repercussions in various types of research areas including different modelling scenarios e.g. reduction of inconsistency during PCs, deriving appropriate consistency thresholds for inconsistent Pairwise Comparison Matrices (PCMs), completing of incomplete PCMs, aggregating of individual PCMs in relation to Group Decision Making (GDM) aspects, and PCMs in/consistency relation to credibility of Priority Vectors (PV) derived from PCMs with the application of various Priorities Deriving Methods (PDMs). The examination objective in the latter area of research is the uncertainty related to the inexactitude of prioritization based on derived PVs. However, only few research studies examine this problem from the perspective of PCM applicability for credible designation of decision maker's (DM) priorities in the way that leads to minimization of the prioritization uncertainty related to possible, and sometimes very probable, ranking fluctuations. This problem constitutes the primary area of interest for this research paper as no research study was thus far identified that examines this problem from the perspective of consistent PCMs. Hence, a research gap was identified. Thus, the objective of this research paper is to fill in this scientific gap. The research findings have serious repercussions in relation to prioritization quality with the application of PCs methodology, mostly in relation to the interpretation and reliability evaluation of prioritization results. Firstly, the research study outcome changes the perspective of the rank reversal phenomenon, which shed new light on many research studies that have been presented in the subject's literature for many decades. Secondly, the research study results throw new light on the discussion concerning the

fuzziness of AHP's results. Last but not least, the effect of the research opens the unique opportunity to evaluate the prioritization outcome obtained within the process of consistent PCs from the well-known perspective of statistical hypothesis testing i.e. the probability designation of the chance that accepted ranking results which were considered as correct due to low probability of change may be incorrect, hence they should be rejected, and the probability designation of the chance that rejected ranking results which were considered as incorrect due to high probability of change may be correct and should be accepted. The paramount finding of the research is the fact that consistent PCMs provide PVs, which elements cannot be considered as established, but only approximated within certain confidence intervals estimated with a certain level of probability. As problems related to heuristics can be analyzed only via a computer simulation process, because they cannot be mathematically determined, the problem examined in this research paper is examined via Monte Carlo simulations, appropriately coded and executed with the application of Wolfram's Mathematica Software. It is believed that this research findings should be very important and useful for all decision makers and researchers during their problems' examinations that relate to prioritization processes with the application of PCs methodology.

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Almeida, J., Santos, D., Figueira, J.R., Francisco, A.P. (2024). A multiobjective mixed integer linear programming model for thesis defence scheduling. European Journal of Operational Research, 312(1), 92-116. DOI: 10.1016/j.ejor.2023.06.031

The problem of scheduling thesis defenses is a critical aspect of academic management and is often overlooked by the literature when compared to course timetabling and exam scheduling. It involves assigning committee members and time slots while considering their availability and room availability. With millions of students worldwide facing this challenge annually, managing resources efficiently is crucial for colleges and universities. Typically handled manually with email and spreadsheets, thesis defense scheduling presents significant management hurdles.

To address this, we propose a multi-objective mixed-integer linear programming model, aiming for broader applicability than existing models tailored to specific university characteristics. Our model evaluates schedules from two points of view: committee assignment quality and schedule quality. These points of view are rendered operational by a set of criteria. Committee assignment quality criteria include equitably distributing assignments among committee members and ensuring suitable evaluation of defenses. Schedule quality criteria include promoting compact schedules, meeting committee member preferences, minimizing room changes, and minimizing committee days.

We demonstrate the effectiveness of our approach through real-world case studies, showing its potential to surpass human

schedulers and assist decision-makers. Additionally, we introduce a method for generating random instances and conduct computational experiments to assess scalability.

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Afsar, B., Silvennoinen, J., Misitano, G., Ruiz, F., Ruiz, A. B., Miettinen, K. (2023). Designing empirical experiments to compare interactive multiobjective optimization methods. Journal of the Operational Research Society, 74(11), 2327-2338. DOI: 10.1080/01605682.2022.2141145

The paper is motivated by the challenge of selecting the most appropriate interactive multiobjective optimization method for a given problem. Interactive methods involve a decision maker (DM) iteratively directing the solution process by providing preference information. Despite the increasing use of these methods, there is a lack of standardized means to compare them and understand DM's perception of different methods.

To address this gap, this study focuses on designing empirical experiments. It proposes a novel questionnaire and experimental design to compare interactive methods with human participants, aiming to measure the cognitive load set on the DM, the method's ability to capture preferences, and the DM's satisfaction in the solution process. As a proof-of-concept study, we conducted an experiment comparing the reference point method (RPM) and synchronous NIMBUS (NIMBUS) on a sustainability problem concerning Finland's sustainable development. We utilized a within-subjects design, where each participant acted as a Finnish policymaker and solved the same problem with the two methods.

The study provides analysis of the cognitive load, preference capturing, and DM satisfaction when applying RPM and NIMBUS for the sustainability problem. While both methods showed similar responses regarding the cognitive load, with NIMBUS being perceived as more mentally demanding, it was preferred due to its effectiveness in capturing preferences and providing a better understanding of the tradeoffs among objective functions. Despite RPM being perceived as easier to use, NIMBUS made participants feel more in control and satisfied with the final solutions. The experiment design and the questionnaire are made available for others to use.

The study serves as a foundation for a broader research agenda on giving guidelines on comparing interactive methods. It also encourages future research to explore more aspects of DMs applying interactive methods.

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Coquelet, B., Dejaegere, G., De Smet, Y. (2024). Analysis of third alternatives' impact on PROMETHEE II ranking. Journal of Multi-Criteria Decision Analysis. DOI: /10.1002/mcda.1823

Debates surrounding rank reversal's legitimacy have sparked extensive discussions in the literature. Some argue against the validity of methods susceptible to rank reversal occurrences, while others defend their acceptance. The definition of rank reversal varies, but generally share the same idea, where the preference between two alternatives depends on one or several other alternatives. This work proposes a novel approach to investigate the rank reversal phenomenon in PROMETHEE methods. While previous research on rank reversal in PROMETHEE methods was mainly focused on examining whether the removal or addition of a single alternative induces rank reversal between two given alternatives, this approach delves into how third alternatives affect the preference between two given alternatives. To do so, a fictional third alternative with the largest possible impact on the difference of net flow scores of the two studied alternatives is introduced and the importance of its impact is determined. This is then exploited in the two following manners. First it is used to refine the existing threshold on possible rank reversal with respect to the addition or deletion of a third alternative. Secondly, a novel robustness indicator for the preference relation is developed. This indicator is obtained by computing the minimal number of those third alternatives necessary to cause rank reversal between any pair of alternatives in the ranking. Thus, providing an indication on the resistance to changes for pairs of alternatives and in fine the global ranking.

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Mecca, B. (2023). Assessing the sustainable development: A review of multi-criteria decision analysis for urban and architectural sustainability. Journal of Multi-Criteria Decision Analysis, 1–16. DOI: 10.1002/mcda.1818

The motivation behind this research lies in the need that urban and architectural choices respond to specific sustainability goals. Indeed, urban and architectural projects determine specific practical actions that enable or disable the materialisation of the concept of urban sustainability. In this context, assessment presents itself as a key and fundamental element to guide decision-making processes, orienting choices towards actions that make the built environment more sustainable. Among the various existing assessment tools and methods, multi-criteria decision analysis (MCDA) are one of the most widely used approaches to support sustainable decisions. Therefore, the article aims to understand what makes sustainability assessment through MCDA suitable or unsuitable to support decision-making processes in the context of sustainable urban and architectural design, and to observe whether these methods are used efficiently in the perspective of sustainable development.

To this end, the article firstly outlines the characteristics of the sustainable problem in question, observing the peculiarities

that assessment methods should possess in order to support the decision towards sustainable urban and architectural design choices. Secondly, the article provides a literature review on the use of MCDA methods in sustainable urban and architectural development contexts, to observe how sustainability concepts have been considered so far in decision-making processes related to the context in question and how MCDA methods have supported them.

The results of the analysis highlight the usefulness of these methods, however observe the current trend of their use that is not fully satisfactory from the perspective of sustainable urban and architectural development. In this sense, the paper identifies some potential gaps and insights for future research developments that may support sustainable urban and architectural development.

Contact: Beatrice Mecca
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Divsalar, M., Ahmadi, M., Ghaedi, M., Ishizaka, A. (2023). An extended TODIM method for hyperbolic fuzzy environments. Computers & Industrial Engineering 185, 109655. DOI: 10.1016/j.cie.2023.109655

We introduce a novel approach to address the challenges of decision-making in complex, uncertain contexts by leveraging hyperbolic fuzzy sets (HyFSs) within the framework of the TODIM method. By extending TODIM to operate within hyperbolic fuzzy environments, the method offers enhanced flexibility and adaptability, enabling more effective handling of uncertainty. The motivation behind this paper stems from recognizing the same theoretical origin of the Kano model and HyFSs. The HyFSs address the limitations of other orthopair fuzzy sets by allowing the membership and non-membership degrees to be independent, thus providing a powerful tool for modeling information. The focus of this paper lies in addressing the constructing decision matrices, as a fundamental element of MCDM problems. Typically, decision matrix construction relies on subjective frameworks. To address this, the paper proposes an objective methodology wherein information from decision-makers is processed through the Kano model, and a hyperbolic fuzzy decision matrix is extracted. This approach aims to enhance the objectivity and reliability of decision-making processes in complex and uncertain environments.

To validate the effectiveness of the proposed method, the paper presents a real-world case study on sustainable supplier selection in the dairy industry. Also, the method ability to manage uncertainty and improve decision quality is demonstrated, highlighting its practical utility in complex decision scenarios. Furthermore, a sensitivity analysis is conducted to assess the robustness of the proposed method to variations in decision-makers' psychological behaviors. This analysis provides insights into the method stability and reliability across different contexts, further reinforcing its applicability in real-world settings. The paper offers a comprehensive and promising approach to decision-making under uncertainty, combining theoretical advancements with practical validation.

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Choicharoon, A., Hodgett, R., Summers, B., Siraj, S. (2024). Hit or miss: A decision support system framework for signing new musical talent. *European Journal of Operational Research* 312(1), 324-337. DOI: 10.1016/j.ejor.2023.06.014

In this research, our goal is to assist with the signing of new musical talent, a complex high-stake decision-making problem for music labels. It involves consideration of various quantitative and qualitative criteria on numerous alternatives and usually results in a low success rate. This article proposes a decision-support framework to improve the efficiency of such process.

To create the framework, a mental model of the process according to A&R experts is created through a series of interviews with experts from the UK. The model identifies three key stages: scouting, initial evaluation, and detailed evaluation of potential signing. These multiple-stage processes allow A&R to cope with the challenge of discovering many potential musical contents, identifying alternatives that have a high probability of success using selective criteria, and then critically evaluating the selection across exhaustive qualitative and quantitative criteria.

Subsequently, we develop a decision support framework (fig 1) for A&R teams based on such a mental model. The process is split into the discovery stage which accommodates both offline and online sources of talents. This is followed by the decision-making aids in the evaluation starting with a decision rule based on two fundamental criteria from experts which replicate the identification of alternatives with high potential and subsequent detailed evaluation of remaining alternatives based on weighted sum methods with unique preferences and criteria from experts.

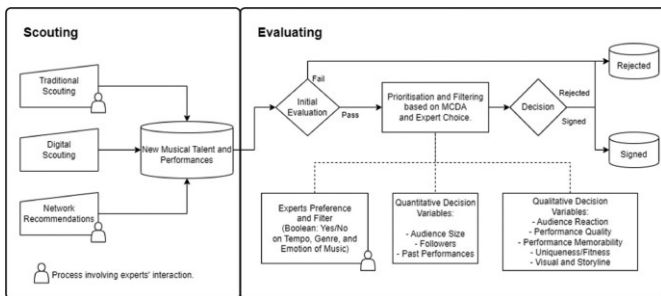


Fig 1) Proposed framework for the signing of new musical talent.

This framework is validated through the creation of a decision support system that utilises multi-criteria decision analysis to support decision-making in small music labels. According to experts, this implementation improves the ability to decide on greater talents while retaining similar quality of recommendation. This serves as a building block for developing systems to aid in this complex decision-making problem.

Delis, M.D., Iosifidi, M., Tasiou, M. (2023). Efficiency of government policy during the COVID-19 pandemic. *Annals of Operations Research* 328, 1287-1312. DOI: 10.1007/s10479-023-05364-9

Our paper uses OR methods to measure the efficiency of governmental decisions to contain the pandemic and protect the public through stringent measures. It brings two key novelties:

- A database on country rankings on the effectiveness of containment, closure, and health system policies in limiting COVID-related deaths.
- An analysis of the determinants (correlates) of efficiency, highlighting characteristics associated with improved government policy efficiency.

In more detail, we assess the effectiveness of various policy approaches in shielding citizens from COVID-19. We introduce a novel government policy efficiency index, gauging the success of stringent measures in reducing COVID-related deaths. This evaluation utilizes frontier-based models, factoring in adjusted mortality rates and policy inputs such as containment, closures, and healthcare strategies. Due to variations in mortality reporting across countries and time, we adjust the mortality based on predictions from daily lagged mortality figures and country \times month fixed effects.

Additionally, we use numerous country-specific variables to explore factors associated with government policy efficiency. While refraining from asserting causation, identifying these factors is crucial for informing policy and guiding future research. We discover that countries with high efficiency scores typically have quality institutions, democratic values, political stability, rule of law, and property rights protection. This contradicts the notion that authoritarian regimes are more effective in pandemic management.

Another important finding is the negative correlation between economic inequality and government policy efficiency. This underscores the necessity for policies to prioritize and safeguard the economically vulnerable, aligning with previous research indicating that crises disproportionately affect economically disparate societies. Finally, we find that culture plays a significant role in enhancing government policy efficiency, with societies characterized by high power distance hindering efficiency, while patient and trusting societies enhance it. This emphasizes the crucial role of cultural factors in fostering effective governance and underscores the importance for governments to tailor policies considering their country's cultural traits to ensure optimal protection for citizens.

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Angilella, S., Doumpos, M., Mazzù, S., & Zopounidis, C. (2023). The relationship between the risk of failure and the global systemic importance of banks: A multicriteria evaluation approach. *Journal of the Operational Research Society*, 74(10), 2109–2123.

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The principal motivation behind this research is to perform and in depth analysis of systemic risk, which constitutes a major issue for financial stability, given the interconnectedness of financial institutions around the world. In this context, the identification of Global Systemically Important Banks (G-SIBs) is crucial, as it enables supervisors to spot potential sources of systemic risks at the global level and take mitigation actions. To this end, the Financial Stability Board (FSB), in consultation with the Basel Committee on Banking Supervision (BCBS), has built a methodology to identify G-SIBs. In this research, we employ a sample of banks over the years 2013–2018 and extend the FSB/BCBS methodology through the application of an outranking multicriteria decision aiding approach, combined with extensive sensitivity analysis based on simulations with respect to the criteria weights and the sample composition. Different schemes for aggregating the simulation results are examined in terms of their robustness. Moreover, we examine the relationship between the multicriteria evaluation for the global systemic importance of banks and their risk of failure. The results reveal that systemic importance is positively associated with their probability of default, thus indicating that additional special measures should be designed and implemented for monitoring the soundness of banks that have a major role in the global financial system.

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Gregório, B. C., Pereira, M. A., & Costa, A. S. (2024). The role of interactions among pairs of access and quality criteria. *Omega*, 126, 103046.

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In the pursuit of a more sustainable future, communities and economies need to be safeguarded by stronger, more resilient health systems. Their complexity, combined with the crises they have faced, requires the implementation of adequate performance assessment methods to improve access and quality of services. This study presents a collaborative multiple criteria decision aiding (MCDA) framework for assessing and categorizing public hospitals according to a five-star rating for service access and quality. Despite the literature's usual assumption that criteria are independent in MCDA models, it is advantageous to consider the interactions between criteria, and this has not yet been applied to the health sector. The framework uses the ELECTRE TRI-nC method with interactions in pairs of criteria. Data from a sample of 26 Portuguese public hospitals from 2018 to 2021 was analyzed in this study, and the findings indicate that most are classified as "poor" (or "two stars") and "average" (or "three stars") during the four years under consideration. Some hospitals were consistently assigned to the highest categories, indicating

their potential utility as benchmark institutions. Our study highlights the potential advantages of incorporating criteria interactions, and we conclude that including criteria interactions yields more realistic outcomes than assuming criteria independence. Robustness analyses validate the framework's credibility.

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Hüllermeier, E., Słowiński, R. (2024). Preference learning and multiple criteria decision aiding: differences, commonalities, and synergies – part I. *4OR*, 2024. Invited Survey published online 30 January 2024.

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Multiple criteria decision aiding (MCDA) and preference learning (PL) are established research fields, which have different roots, developed in different communities – the former in the decision sciences and operations research, the latter in AI and machine learning – and have their own agendas in terms of problem setting, assumptions, and criteria of success. In spite of this, they share the major goal of constructing practically useful decision models that either support humans in the task of choosing the best, classifying, or ranking alternatives from a given set, or even automate decision-making by acting autonomously on behalf of the human. Therefore, MCDA and PL can complement and mutually benefit from each other, a potential that has been exhausted only to some extent so far. By elaborating on the connection between MCDA and PL in more depth, our goal is to stimulate further research at the junction of these two fields. To this end, we first review both methodologies, MCDA in this part of the paper and PL in the second part, with the intention of highlighting their most common elements. In the second part, we then compare both methodologies in a systematic way and give an overview of existing work on combining PL and MCDA.

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Hüllermeier, E., Słowiński, R. (2024). Preference learning and multiple criteria decision aiding: differences, commonalities, and synergies – part II. *4OR*, 2024. Invited Survey published online 30 January 2024.

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This article elaborates on the connection between multiple criteria decision aiding (MCDA) and preference learning (PL), two research fields with different roots and developed in different communities. It complements the first part of the paper, in which we started with a review of MCDA. In this part, a similar review will be given for PL, followed by a systematic comparison of both methodologies, as well as an overview of existing work on combining PL and MCDA. Our

main goal is to stimulate further research at the junction of these two methodologies.

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Ágoston, K. Cs., Csató, L. (2024). A lexicographically optimal completion for pairwise comparison matrices with missing entries. *European Journal of Operational Research*, 314(3): 1078-1086.

DOI: 10.1016/j.ejor.2023.10.035

Csató, L. (2024). How to choose a completion method for pairwise comparison matrices with missing entries: An axiomatic result. *International Journal of Approximate Reasoning*, 164: 109063.

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In many decision-making problems, the importance of the alternatives is quantified by pairwise comparisons. However, some pairwise comparisons may be missing due to a lack of knowledge, time pressure, uncertainty, or other factors. These unknown entries are usually estimated by minimising the inconsistency of the completed pairwise comparison matrix. However, the outcome of this approach depends on the inconsistency index chosen, and several competing methods exist to measure inconsistency.

This research suggests a new completion method and shows that it has good theoretical properties. Our inspiration comes from the nucleolus, a well-known solution concept in cooperative game theory, where the excesses of the coalitions are the largest in the leximin order. Analogously, the missing entries are chosen to lexicographically optimise the inconsistency of all triads (pairwise comparison matrices with three alternatives). The inconsistency of the most inconsistent triad is reduced first, followed by the inconsistency of the second most inconsistent triad, and the process is repeated until all missing entries are determined.

The lexicographic optimisation is proved to result in a unique solution if and only if all alternatives can be compared at least indirectly, through other alternatives. In other words, the undirected graph associated with the pairwise comparisons, where the edges represent the known elements, should be connected. The optimal filling can be obtained by solving successive linear programming (LP) models in a reasonable amount of time: the running time remains below one second even for 9 alternatives and 10 missing comparisons.

We also have a powerful axiomatic argument for the lexicographical completion method. Take a weakly connected directed acyclic graph that represents the preferences. It has an associated incomplete pairwise comparison matrix: its (i,j) entry is a parameter $p > 1$ if there is an arc from node i to node j , and is missing if there exists no arc between nodes i and j . The matrix is completed, the weights are derived, and it is checked whether they contain an ordinal violation or not. The two most popular prioritisation techniques for incomplete pairwise comparison matrices, the incomplete eigenvector, and logarithmic least squares methods, may result in a violation of the preferences given by a directed acyclic graph. However, if the eigenvector or the geometric mean methods

are used to derive weights from the lexicographically optimal completion, ordinal violations cannot occur.

In addition, since there is essentially only one inconsistency index for triads (almost all inconsistency indices are functionally equivalent on this set), the lexicographical approach does not require an arbitrarily picked inconsistency index to obtain the optimal values of missing pairwise comparisons. Thus, the proposed technique is worth building into decision support tools.

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Dell'Anna, F., Berta, M., Bottero, M., Mallia, G., Morgese, V. (2024). Multicriteria-decision support for master plan scheduling: urban regeneration of an industrial area in Northern Italy. *Construction Management and Economics*, 42(5), 476-501

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This research delineates a multicriteria decision support framework for the scheduling and prioritization of urban regeneration projects, focusing on an industrial area in Northern Italy. Urban regeneration, particularly in post-industrial landscapes, requires a nuanced approach that balances environmental sustainability, socio-economic revitalization, and urban development. Leveraging the ELECTRE TRI-B method, this study introduces a multi-step evaluation model that systematically classifies urban regeneration activities into priority levels based on a comprehensive set of criteria spanning environmental, social, economic, and urban dimensions.

The methodology incorporates the ELECTRE TRI-B method within a multicriteria decision analysis (MCDA) framework, facilitating the objective prioritization of regeneration activities. This approach allows for the consideration of varied stakeholder interests and the complex interplay of factors critical to sustainable urban development. Through the application to the Basse di Stura area in Turin (Italy Northwest), the study demonstrates the model's capacity to streamline decision-making processes, ensuring the strategic alignment of regeneration efforts with overarching sustainability goals.

Findings from the case study highlight the efficacy of the proposed model in enhancing the planning and execution of urban regeneration initiatives, underscoring its potential applicability in similar urban contexts. By providing a structured mechanism for evaluating and scheduling urban regeneration activities, this research contributes to the fields of urban planning and MCDA, offering valuable insights for policymakers, urban planners, and researchers engaged in the sustainable transformation of industrial areas.

This work not only advances the theoretical underpinnings of MCDA in urban regeneration contexts but also presents a practical tool for addressing the complexities inherent in revitalizing urban areas, promoting a holistic and balanced approach to sustainable urban development.

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Arcidiacono, S. G., Corrente, S., Greco, S. (2023). Inducing a probability distribution in Stochastic Multicriteria Acceptability Analysis. *Omega*, 123, 102969.
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Stochastic Multicriteria Acceptability Analysis assumes the existence of a probability distribution in the space of value functions being defined a priori. In the same direction indicated by the Subjective Stochastic Ordinal Regression, we propose three new procedures aiming to build a probability distribution on the space of value functions taking into account some preference information provided by the Decision Maker. In particular, the three proposals, involving linear and non-linear programming, infer a unimodal probability distribution function on the space of value functions based on preference information given by the Decision Maker with a shape decreasing with respect to the distance from the central tendency. All our proposals, based on non-parametric (first and second) and parametric (third) approach, can handle value functions more general than the additive one. The goodness of the proposed methods is tested in an extensive set of simulations. Moreover, a sensitivity analysis on the variables of our procedure has been done.

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Corrente, S., Greco, S., Matarazzo, B., Słowiński, R. (2024). Explainable interactive evolutionary multiobjective optimization. *Omega*, 122, 102925.
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We present a new approach to Interactive Evolutionary Multiobjective Optimization (IEMO) guided by a preference elicitation procedure inspired by artificial intelligence and designed in line with decision psychology. For a conflicting nature of objectives, a solution optimizing all objectives simultaneously does not exist and thus the best compromise solution is searched for. In the interactive search, preference elicitation phases alternate with optimization phases. In the IEMO procedure proposed in this paper, during the preference elicitation phase, the Decision Maker (DM) gets a sample of solutions from the current population and is asked to indicate relatively good solutions in this sample. Using the Dominance-based Rough Set Approach (DRSA), this information is summarized by "if ..., then ..." decision rules which represent DM's preferences. They are used in the next optimization phases of the IEMO to influence the crossover so as to converge towards the part of the Pareto front containing the

best compromise solution. Besides guiding the search process, the decision rules can be read as arguments explaining the DM's preferences. In this way, the proposed method implements the postulate of transparency and explainability expected from interactive procedures. The DM has a chance to understand how their answers given in the preference elicitation phase are translated into guidelines for the algorithm in the optimization phase. This is a distinctive aspect of what we call eXplainable Interactive Multiobjective Evolutionary optimization Approach (XIMEA). The presented XIMEA-DRSA method implements this approach. From the viewpoint of behavioral psychology, the decision rules support the DM to construct and learn their preferences in the course of evolutionary optimization. To check the efficiency of XIMEA-DRSA, we performed several experiments on continuous as well as combinatorial test problems, assuming the existence of an artificial DM that iteratively provides its preferences according to a known value function. The results prove that XIMEA-DRSA is converging to the most interesting part of the Pareto front, similar to an evolutionary algorithm that optimizes the value function of the artificial DM and, therefore, the latter is used as a benchmark.



Articles Harvest
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