



PROGRAM & BOOK OF ABSTRACTS

91st online meeting of the EURO Working Group in Multi Criteria Decision Aiding (EWG-MCDA)

Main theme of the meeting: Multiple Criteria Decisions under Uncertainty

April 29-30, 2021, Zoom

195 registered participants from 29 countries



Program Committee

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EURO – Association of European Operational Research Societies
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Program

April 29, Thursday – times are according to Central European Summer Time (CEST = UTC+2)

Titles in the program and in the abstract are linked to each other.

time	event	author(s)	title
13:30-13:45	connecting in Zoom		
13:45-14:00	opening by Gyula Vastag, vice rector for research, Corvinus University of Budapest		
14:00-14:45	keynote lecture	Giuseppe Munda	Dealing with uncertainties in a social multi-criteria framework
14:45-16:15	Session 1 – Ecosystems Chair: Carla Henriques		
14:45		Scharpenberg C Geldermann J	Decision support for sustainable regional food distribution of small farmers
15:15		Bottero M Caprioli C Dell'Ovo M Oppio A	Assessing ecosystem services through multi-criteria decision analysis: a case study in Turin
15:45		Henriques CO Gouveia CM Tenente M da Silva PP	Eco-efficiency of the electricity sector across the EU 28 – A Value-Based approach
	discussion:		
		Barbati M Bottero M Corrente S Datola G Dell'Anna F Greco S	A space-time model to plan new developments in Yanzhou Island (China)

		Lemos Martins H Figueira JR Henriques CO	A multiple criteria classification approach for assessing policy interventions to stimulate transition of electric vehicle technology in Europe
		Botter G D'Alpaos C	Policy prioritization to enhance the sustainability of water management in river basins
		Bagheri N	Evaluation of the Efficiency of UAE Sectors based on Sustainable Development Objectives and Circular Economy Using DEA
		Kelemen A Bozóki S	On the interaction of weights of criteria and assessment functions in composite indices of well-being and sustainable development
16:15-16:30	break		
16:30-18:30	Session 2 – Outranking methods and applications Chair: Maria Franca Norese		
16:30		Pappalardo MR Angilella S	Assessment of a failure prediction model in the Energy sector: A Multi-criteria discrimination approach with Promethee based classification

17:00		Pohl E Geldermann J	PROMETHEE-Cloud: A Web-based implementation of the outranking method PROMETHEE offering a wide range of sensitivity analysis and reporting options
17:30		Pereira M	Using ELECTRE TRI-NC to model a sunshine regulatory framework for the public hospitals in Portugal: A proposal
18:00		Norese MF Rolando D Curto R	A multi-criteria decision aid perspective that guides an incremental development of knowledge and fosters relationships and decisions

April 30, Friday – times are according to Central European Summer Time (CEST = UTC+2)

		author(s)	title
8:45-9:00	connecting in Zoom		
9:00-9:45	keynote lecture	Marie-Paule Kieny	Decision making on purchase of COVID-19 vaccines in the context of incomplete information
9:45-10:00	break		
10:00-12:00	Session 3 – Analytic Hierarchy Process Chair: Vitaliy Tsyganok		

10:00		Inuiguchi M Torisu I	The usefulness of interval weight estimation in ranking alternatives under a crisp pairwise comparison matrix
10:30		Lakićević M Marques M Martó M	The AHP method in optimizing pollution from pulp production
11:00		Kazibudzki P	On the affinity of the selected AHP prioritization methods
11:30		Szádoczki Zs Duleba Sz	Distance-based aggregation methods in group AHP
	discussion:		
		Kuřakowski K Talaga D	Inconsistency indicators for incomplete pairwise comparisons
		Fattoruso G Barbati M Ishizaka A Squillante M	Improving classification methods through MCDA methods in the automotive sector
		Matulova M Kolacek M	A decision-making framework for event management based on a hybrid fuzzy mcdm method
		Oliva G Faramondi L Setola R Bozóki S	Characterizing robustness to rank reversal in Analytic Hierarchy Process
		Juhász P Szádoczki Zs Bozóki S	A comparison of weight vectors calculated from incomplete pairwise

			comparison matrices associated to specific graphs
12:00-13:00	lunch break		
13:00-14:30	Session 4 – Decision support in health care Chair: Ana Sara Costa		
13:00		Huttin CC	New development for cost sharing influence in health care - Identification of cost cues and consistency issues
13:30		Costa AS Rocha A Figueira JR Ferreira DC Marques RC	Quality assessment of the Portuguese public hospitals using a multiple criteria sorting method
14:00		Csiszár O Diaz Ochoa JG Csiszár G	Neural network-based medical recommender system using preference modeling
14:30-14:45	break		
14:45-15:15	preparations for the next EWG-MCDA meetings		
15:15-17:15	Session 5: Ranking and optimization Chair: Athanasios Spyridakos		
15:15		Orbán-Mihálykó É Mihálykó Cs Gyarmati L	The evaluation of sports tournaments' results by Thurstone methods

15:45		Spyridakos A Tsotsolas N Vryzides I	A methodological approach to measure and handle the impacts on the ranking of the alternative actions in extrapolation phase of the MCDA UTA methods in cases of low robustness
16:15		Skulimowski AMJ	Multicriteria multimodel-based social impact optimization
16:45		Kurek KA Heijman W van Ophem J Gedek S Strojny J	Measuring local competitiveness: comparing and integrating two methods PCA and AHP
	discussion:		
		Szüle B	The relationship between bank asset structure and solvency probability
		Stamenkovic M	Dominance-based rough set approach for multiple-channel strategy selection
		Manthoulis G Doumpos M Zopounidis C Galariotis E	An ordinal classification framework for bank failure prediction: methodology and empirical evidence for US banks
		Sziklai BR Baranyi M Héberger K	Testing cross-validation variants in ranking environments
17:15-17:30	closing		

Stay informed on future EWG-MCDA meetings: <http://www.cs.put.poznan.pl/ewgmcd/>

