

Contents

1	Roman Słowiński and His Research Program: Intelligent Decision Support Systems Between Operations Research and Artificial Intelligence	1
	Salvatore Greco, Vincent Mousseau, Jerzy Stefanowski, and Constantin Zopounidis	
2	Roman’s Scientific Trajectory: A Retrospective with an Emphasis on the Beginning	29
	Jan Węglarz	
3	ELECTRE Methods: A Survey on Roman Słowiński Contributions	37
	Salvatore Corrente, Josè Rui Figueira, and Salvatore Greco	
4	How Can Decision Sciences and MCDM Help Solve Challenging World Problems?	59
	Hannele Wallenius and Jyrki Wallenius	
5	Preference Disaggregation Analysis: An Overview of Methodological Advances and Applications	73
	Michalis Doumpos, Evangelos Grigoroudis, Nikolaos F. Matsatsinis, and Constantin Zopounidis	
6	Modeling and Learning of Hierarchical Decision Models: The Case of the Choquet Integral	101
	Eyke Hüllermeier and Christophe Labreuche	
7	Preference Learning Applied to Credit Rating: Applications and Perspectives	121
	Adiel Teixeira de Almeida Filho, Julio Cezar Soares Silva, Diogo Ferreira de Lima Silva, and Luciano Ferreira	
8	USort-nB and USort-nC: Two Multi-criteria Ordinal Classification Methods Using Interval Value Functions	139
	Eduardo Fernández, Jorge Navarro, and Efrain Solares	

9	Constructing an Outranking Relation from Semantic Criteria and Ordinal Criteria for the ELECTRE Method.....	159
	Aida Valls and Antonio Moreno	
10	Robust Ordinal Regression for Multiple Criteria Decision Aiding ...	185
	Miłosz Kadziński	
11	What Is Legitimate Decision Support?.....	207
	Yves Meinard and Alexis Tsoukiàs	
12	MR-Sort with Partial Information to Decide Whether to Invest in Innovation Projects	225
	Philippe Fortemps and Marc Pirlot	
13	Meta-Rankings of Journals Publishing Multiple Criteria Decision Aiding Research: Benefit-of-Doubt Composite Indicators for Heterogeneous Qualitative Scales	245
	Luis C. Dias and Miłosz Kadziński	
14	Interactive Multicriteria Methodology Based on a Synergy of PROMETHEE II and Robust Simos Methods: Application to the Evaluation of E-government in Europe	269
	Eleftherios Siskos and Yannis Siskos	
15	The Use of Decision Maker's Preferences in Multiobjective Metaheuristics	297
	Juergen Branke, Andrzej Jaszekiewicz, and Piotr Zielniewicz	
16	Decomposition and Coordination for Many-Objective Optimization	307
	Margaret M. Wiecek and Philip J. de Castro	
17	Fuzzy Linear Programming with General Necessity Measures	331
	Masahiro Inuiguchi	
18	Dominance-Based Rough Set Approach: Basic Ideas and Main Trends	353
	Jerzy Błaszczyński, Salvatore Greco, Benedetto Matarazzo, and Marcin Szelać	
19	Rule Set Complexity for Mining Incomplete Data Using Probabilistic Approximations Based on Generalized Maximal Consistent Blocks	383
	Patrick G. Clark, Jerzy W. Grzymala-Busse, Zdzisław S. Hippem, and Teresa Mroczek	
20	Rule Confirmation Measures: Properties, Visual Analysis and Applications	401
	Izabela Szczech, Robert Susmaga, Dariusz Brzezinski, and Jerzy Stefanowski	

21 An Approach to Combining Adherence-to-Therapy and Patient Preference Models for Evaluation of Therapies in Patient-Centered Care 425

Dympna O’Sullivan, Szymon Wilk, Martin Michalowski, Hugh O’Sullivan, Marc Carrier, and Wojtek Michalowski