

Contents

Part I Foundations of Rough Sets	
An Introduction to Rough Sets	3
Yiyu Yao and Dominik Ślęzak	
Part II Methods and Applications in Data Analysis	
Applying Rough Set Concepts to Clustering	23
Pawan Lingras and Georg Peters	
Rough Clustering Approaches for Dynamic Environments	39
Fernando Crespo, Georg Peters, and Richard Weber	
Feature Selection, Classification and Rule Generation Using Rough Sets	51
Haider Banka and Sushmita Mitra	
Part III Methods and Applications in Decision Support	
Three-Way Decisions Using Rough Sets	79
Yiyu Yao	
Rough Set Based Decision Support—Models Easy to Interpret	95
Sebastian Widz and Dominik Ślęzak	
Part IV Methods and Applications in Management	
Financial Series Forecasting Using Dual Rough Support Vector Regression	115
Pawan Lingras, Cory Butz, and Parag Bhalchandra	
Grounding Information Technology Project Critical Success Factors Within the Organization	129
M. Gordon Hunter and Georg Peters	

Workflow Management Supported by Rough Set Concepts	143
Georg Peters and Roger Tagg	
Part V Methods and Applications in Engineering	
Rough Natural Hazards Monitoring	163
Marek Sikora and Beata Sikora	
Nearness of Associated Rough Sets	181
Sheela Ramanna and James F. Peters	
Contributor's Biography	207
Index	213

Rough Sets: Selected Methods and Applications in
Management and Engineering

Peters, G.; Lingras, P.; Slezak, D.; Yao, Y. (Eds.)

2012, X, 214 p., Hardcover

ISBN: 978-1-4471-2759-8