

Contents

Part I Information Theoretic and Aggregation Issues

On the Meaning and the Measuring of ‘Probable’	3
Enric Trillas and Rudolf Seising	
Organizing Families of Aggregation Operators into a Cube of Opposition	27
Didier Dubois, Henri Prade and Agnès Rico	
Entropy Measures and Views of Information	47
Bernadette Bouchon-Meunier and Christophe Marsala	
OWA Operators and Choquet Integrals in the Interval-Valued Setting	65
H. Bustince, J. Fernandez, L. De Miguel, E. Barrenechea, M. Pagola and R. Mesiar	
Information Theory Applications in Soft Computing	81
Paul Elmore and Frederick Petry	

Part II Applications in Modeling, Decision Making, Control, and Other Areas

On Practical Applicability of the Generalized Averaging Operator in Fuzzy Decision Making	101
Uzay Kaymak	
Evolving Possibilistic Fuzzy Modeling and Application in Value-at-Risk Estimation	119
Leandro Maciel, Rosangela Ballini and Fernando Gomide	
Using Similarity and Dissimilarity Measures of Binary Patterns for the Comparison of Voting Procedures	141
Janusz Kacprzyk, Hannu Nurmi and Sławomir Zadrozny	

A Geo-Spatial Data Infrastructure for Flexible Discovery, Retrieval and Fusion of Scenario Maps in Preparedness of Emergency.	171
Gloria Bordogna, Simone Sterlacchini, Paolo Arcaini, Giacomo Cappellini, Mattia Cugini, Elisabetta Mangioni and Chrysanthi Polyzoni	
The Multiple Facets of Fuzzy Controllers: <i>Look-up-Tables—A Special Class of Fuzzy Controllers</i>	191
Dimitar Filev and Hao Ying	
FuzzyLP: An R Package for Solving Fuzzy Linear Programming Problems	209
Pablo J. Villacorta, Carlos A. Rabelo, David A. Pelta and José Luis Verdegay	
Part III Some Bibliometric Remarks	
A Bibliometric Analysis of the Publications of Ronald R. Yager.	233
José M. Merigó, Anna M. Gil-Lafuente and Janusz Kacprzyk	

Granular, Soft and Fuzzy Approaches for Intelligent
Systems

Dedicated to Professor Ronald R. Yager

Kacprzyk, J.; Filev, D.; Beliakov, G. (Eds.)

2017, XVIII, 248 p. 40 illus., 14 illus. in color., Hardcover

ISBN: 978-3-319-40312-0