

Contents

Arithmetic and Distance-Based Approach to the Statistical Analysis of Imprecisely Valued Data	1
<i>Angela Blanco-Fernández, María Rosa Casals, Ana Colubi, Renato Coppi, Norberto Corral, Sara de la Rosa de Saa, Pierpaolo D’Urso, Maria Brigida Ferraro, Marta García-Bárzana, María Ángeles Gil, Paolo Giordani, Gil González-Rodríguez, María Teresa López, María Asunción Lubiano, Manuel Montenegro, Takehiko Nakama, Ana Belén Ramos-Guajardo, Beatriz Sinova, Wolfgang Trutschnig</i>	
Linear Regression Analysis for Interval-valued Data Based on Set Arithmetic: A Review	19
<i>Angela Blanco-Fernández, Ana Colubi, Gil González-Rodríguez</i>	
Bootstrap Confidence Intervals for the Parameters of a Linear Regression Model with Fuzzy Random Variables	33
<i>Maria Brigida Ferraro, Renato Coppi, Gil González-Rodríguez</i>	
On the Estimation of the Regression Model M for Interval Data	43
<i>Marta García-Bárzana, Ana Colubi, Erricos J. Kontoghiorghes</i>	
Hybrid Least-Squares Regression Modelling Using Confidence Bounds	53
<i>Bülent Tütmez, Uzay Kaymak</i>	
Testing the Variability of Interval Data: An Application to Tidal Fluctuation	65
<i>Ana Belén Ramos-Guajardo, Gil González-Rodríguez</i>	
Comparing the Medians of a Random Interval Defined by Means of Two Different L^1 Metrics	75
<i>Beatriz Sinova, Stefan Van Aelst</i>	

Comparing the Representativeness of the 1-norm Median for Likert and Free-response Fuzzy Scales 87
Sara de la Rosa de Sáa, Stefan Van Aelst

Fuzzy Probability Distributions in Reliability Analysis, Fuzzy HPD-regions, and Fuzzy Predictive Distributions 99
Reinhard Viertl, Shohreh Mirzaei Yeganeh

SAFD—An R Package for Statistical Analysis of Fuzzy Data..... 107
Wolfgang Trutschnig, María Asunción Lubiano, Julia Lastra

Statistical Reasoning with Set-Valued Information: Ontic vs. Epistemic Views 119
Didier Dubois

Pricing of Catastrophe Bond in Fuzzy Framework 137
Piotr Nowak, Maciej Romaniuk

Convergence of Heuristic-based Estimators of the GARCH Model 151
Alexandru Mandes, Cristian Gatu, Peter Winker

Lasso-type and Heuristic Strategies in Model Selection and Forecasting..... 165
Ivan Savin, Peter Winker

Streaming-Data Selection for Gaussian-Process Modelling ... 177
Dejan Petelin, Juš Kocijan

Change Detection Based on the Distribution of p-Values 191
Katharina Tschumitschew, Frank Klawonn

Advanced Analysis of Dynamic Graphs in Social and Neural Networks 205
Pascal Held, Christian Moewes, Christian Braune, Rudolf Kruse, Bernhard A. Sabel

Fuzzy Hyperinference-Based Pattern Recognition..... 223
Mario Rosario Guarracino, Raimundas Jasinevicius, Radvile Krusinskiene, Vytautas Petrauskas

Dynamic Data-Driven Fuzzy Modeling of Software Reliability Growth..... 241
Olga Georgieva

Dynamic Texture Recognition Based on Compression Artifacts..... 253
Dubravko Ćulibrk, Matei Mancas, Vladimir Črnojević

The Hubness Phenomenon: Fact or Artifact?	267
<i>Thomas Low, Christian Borgelt, Sebastian Stober, Andreas Nürnberger</i>	
Proximity-Based Reference Resolution to Improve Text Retrieval	279
<i>Shima Gerani, Mostafa Keikha, Fabio Crestani</i>	
Derivation of Linguistic Summaries is Inherently Difficult: Can Association Rule Mining Help?	291
<i>Janusz Kacprzyk, Sławomir Zadrozny</i>	
Mining Local Connectivity Patterns in fMRI Data.....	305
<i>Kristian Loewe, Marcus Grueschow, Christian Borgelt</i>	
Fuzzy Clustering based on Coverings	319
<i>Didier Dubois, Daniel Sánchez</i>	
Decision and Regression Trees in the Context of Attributes with Different Granularity Levels	331
<i>Kemal Ince, Frank Klawonn</i>	
Stochastic Convergence Analysis of Metaheuristic Optimisation Techniques.....	343
<i>Nikos S. Thomaidis, Vassilios Vassiliadis</i>	
Comparison of Multi-objective Algorithms Applied to Feature Selection	359
<i>Özlem Türkşen, Susana M. Vieira, José F.A. Madeira, Ayşen Apaydın, João M.C. Sousa</i>	
Author Index	377