

Contents

Part I Mining Data with Optimization

Online Learning of a Weighted Selective Naive Bayes Classifier with Non-convex Optimization	3
Carine Hue, Marc Boullé and Vincent Lemaire	
On Making Skyline Queries Resistant to Outliers	19
Hélène Jaudoin, Pierre Nerzic, Olivier Pivert and Daniel Rocacher	
Adaptive Down-Sampling and Dimension Reduction in Time Elastic Kernel Machines for Efficient Recognition of Isolated Gestures	39
Pierre-Francois Marteau, Sylvie Gibet and Clément Reverdy	
Exact and Approximate Minimal Pattern Mining	61
Arnaud Soulet and François Rioult	

Part II Quality Measures, Dissimilarities and Ultrametrics

Comparison of Proximity Measures for a Topological Discrimination	85
Rafik Abdesselam and Fatima-Zahra Aazi	
Comparison of Linear Modularization Criteria Using the Relational Formalism, an Approach to Easily Identify Resolution Limit	101
Patricia Conde-Céspedes, Jean-François Marcotorchino and Emmanuel Viennet	
A Novel Approach to Feature Selection Based on Quality Estimation Metrics	121
Jean-Charles Lamirel, Pascal Cuxac and Kafil Hajlaoui	
Ultrametricity of Dissimilarity Spaces and Its Significance for Data Mining	141
Dan A. Simovici, Rosanne Vetro and Kaixun Hua	

Part III Semantics, Ontologies, and Social Networks

SMERA: Semantic Mixed Approach for Web Query Expansion and Reformulation	159
Bissan Audeh, Philippe Beaune and Michel Beigbeder	
Multi-layer Ontologies for Integrated 3D Shape Segmentation and Annotation	181
Thomas Dietenbeck, Fakhri Torkhani, Ahlem Othmani, Marco Attene and Jean-Marie Favreau	
Ontology Alignment Using Web Linked Ontologies as Background Knowledge	207
Thomas Hecht, Patrice Buche, Juliette Dibie, Liliana Ibanescu and Cassia Trojahn dos Santos	
LIAISON: reconcILIation of Individuals Profiles Across Social Networks	229
Gianluca Quercini, Nacéra Bennacer, Mohammad Ghufraan and Coriane Nana Jipmo	
Clustering of Links and Clustering of Nodes: Fusion of Knowledge in Social Networks	255
Erick Stattner and Martine Collard	
Author Index	277

Advances in Knowledge Discovery and Management

Volume 6

Guillet, F.; Pinaud, B.; Venturini, G. (Eds.)

2017, XXI, 278 p. 81 illus., 61 illus. in color., Hardcover

ISBN: 978-3-319-45762-8