

Contents

Data Streams and Time Series Analysis

Parameter Estimation and Pattern Validation in Flock Mining	3
<i>Rebecca Ong, Mirco Nanni, Chiara Renso, Monica Wachowicz, and Dino Pedreschi</i>	
Feature Extraction over Multiple Representations for Time Series Classification	18
<i>Dominique Gay, Romain Guigourès, Marc Boullé, and Fabrice Clérot</i>	
A Classification Based Scoring Function for Continuous Time Bayesian Network Classifiers.	35
<i>Daniele Codecasa and Fabio Stella</i>	
Trajectory Data Pattern Mining	51
<i>Elio Masciari, Gao Shi, and Carlo Zaniolo</i>	
Process Mining to Forecast the Future of Running Cases.	67
<i>Sonja Pravilovic, Annalisa Appice, and Donato Malerba</i>	

Classification, Clustering and Pattern Discovery

A Hybrid Distance-Based Method and Support Vector Machines for Emotional Speech Detection	85
<i>Vladimer Kobayashi</i>	
Methods for the Efficient Discovery of Large Item-Indexable Sequential Patterns	100
<i>Rui Henriques, Cláudia Antunes, and Sara C. Madeira</i>	
Mining Frequent Partite Episodes with Partwise Constraints	117
<i>Takashi Katoh, Shin-ichiro Tago, Tatsuya Asai, Hiroaki Morikawa, Junichi Shigezumi, and Hiroya Inakoshi</i>	
Structure Determination and Estimation of Hierarchical Archimedean Copulas Based on Kendall Correlation Matrix	132
<i>Jan Górecki and Martin Holeňa</i>	
ReliefF for Hierarchical Multi-label Classification	148
<i>Ivica Slavkov, Jana Karcheska, Dragi Kocев, Slobodan Kalajdziski, and Sašo Džeroski</i>	

The Use of the Label Hierarchy in Hierarchical Multi-label Classification Improves Performance.	162
<i>Jurica Levatić, Dragi Kocev, and Sašo Džeroski</i>	

Graphs, Networks and Relational Data

AGWAN: A Generative Model for Labelled, Weighted Graphs.	181
<i>Michael Davis, Weiru Liu, Paul Miller, Ruth F. Hunter, and Frank Kee</i>	
Thresholding of Semantic Similarity Networks Using a Spectral Graph-Based Technique.	201
<i>Pietro Hiram Guzzi, Pierangelo Veltri, and Mario Cannataro</i>	
A Relational Unsupervised Approach to Author Identification	214
<i>Fabio Leuzzi, Stefano Ferilli, and Fulvio Rotella</i>	

Machine Learning and Music Data

From Personalized to Hierarchically Structured Classifiers for Retrieving Music by Mood	231
<i>Amanda Cohen Mostafavi, Zbigniew W. Raś, and Alicja A. Wieczorkowska</i>	
Mining Audio Data for Multiple Instrument Recognition in Classical Music	246
<i>Elżbieta Kubera and Alicja A. Wieczorkowska</i>	

Author Index	261
-------------------------------	-----

New Frontiers in Mining Complex Patterns
Second International Workshop, NFMCP 2013, Held in
Conjunction with ECML-PKDD 2013, Prague, Czech
Republic, September 27, 2013, Revised Selected
Papers

Appice, A.; Ceci, M.; Loglisci, C.; Manco, G.; Masciari, E.;
Ras, Z. (Eds.)

2014, XII, 261 p. 80 illus., Softcover

ISBN: 978-3-319-08406-0