

Contents

Biologically Inspired Data Mining Techniques (BDM)

Towards a New Evolutionary Subsampling Technique for Heuristic Optimisation of Load Disaggregators	3
<i>Michael Mayo and Sara Omranian</i>	
Neural Choice by Elimination via Highway Networks	15
<i>Truyen Tran, Dinh Phung, and Svetha Venkatesh</i>	
Attribute Selection and Classification of Prostate Cancer Gene Expression Data Using Artificial Neural Networks.	26
<i>Sreenivas Sremath Tirumala and A. Narayanan</i>	
An Improved Self-Structuring Neural Network	35
<i>Rami M. Mohammad, Fadi Thabtah, and Lee McCluskey</i>	
Imbalanced ELM Based on Normal Density Estimation for Binary-Class Classification	48
<i>Yulin He, Rana Aamir Raza Ashfaq, Joshua Zhexue Huang, and Xizhao Wang</i>	
Multiple Seeds Based Evolutionary Algorithm for Mining Boolean Association Rules	61
<i>Mir Md. Jahangir Kabir, Shuxiang Xu, Byeong Ho Kang, and Zongyuan Zhao</i>	

Machine Learning for Sensory Data Analysis (MLSDA)

Predicting Phone Usage Behaviors with Sensory Data Using a Hierarchical Generative Model	75
<i>Chuankai An and Dan Rockmore</i>	
Comparative Evaluation of Action Recognition Methods via Riemannian Manifolds, Fisher Vectors and GMMs: Ideal and Challenging Conditions . . .	88
<i>Johanna Carvajal, Arnold Willem, Chris McCool, Brian Lovell, and Conrad Sanderson</i>	
Rigidly Self-Expressive Sparse Subspace Clustering	101
<i>Linbo Qiao, Bofeng Zhang, Yipin Sun, and Jinshu Su</i>	

Joint Recognition and Segmentation of Actions via Probabilistic Integration of Spatio-Temporal Fisher Vectors	115
<i>Johanna Carvajal, Chris McCool, Brian Lovell, and Conrad Sanderson</i>	
Learning Multi-faceted Activities from Heterogeneous Data with the Product Space Hierarchical Dirichlet Processes	128
<i>Thanh-Binh Nguyen, Vu Nguyen, Svetha Venkatesh, and Dinh Phung</i>	
Phishing Detection on Twitter Streams.	141
<i>Se Yeong Jeong, Yun Sing Koh, and Gillian Dobbie</i>	
Image Segmentation with Superpixel Based Covariance Descriptor	154
<i>Xianbin Gu and Martin Purvis</i>	

Predictive Analytics for Critical Care (PACC)

Normalized Cross-Match: Pattern Discovery Algorithm from Biofeedback Signals	169
<i>Xueyuan Gong, Simon Fong, Yain-Whar Si, Robert P. Biuk-Aghai, Raymond K. Wong, and Athanasios V. Vasilakos</i>	
Event Prediction in Healthcare Analytics: Beyond Prediction Accuracy	181
<i>Lina Fu, Faming Li, Jing Zhou, Xuejin Wen, Jinhui Yao, and Michael Shepherd</i>	
Clinical Decision Support for Stroke Using Multi-view Learning Based Models for NIHSS Scores	190
<i>Vaibhav Rajan, Sakyajit Bhattacharya, Ranjan Shetty, Amith Sitaram, and G. Vivek</i>	

Data Mining in Business and Finance (WDMBF)

A Music Recommendation System Based on Acoustic Features and User Personalities	203
<i>Rui Cheng and Boyang Tang</i>	
A Social Spam Detection Framework via Semi-supervised Learning	214
<i>Xianchao Zhang, Haijun Bai, and Wenxin Liang</i>	
A Hierarchical Beta Process Approach for Financial Time Series Trend Prediction.	227
<i>Mojgan Ghanavati, Raymond K. Wong, Fang Chen, Yang Wang, and Joe Lee</i>	
Efficient Iris Image Segmentation for ATM Based Approach Through Fuzzy Entropy and Graph Cut	238
<i>Shibai Yin, Yibin Wang, and Tao Wang</i>	

Matching Product Offers of E-Shops	248
<i>Andrea Horch, Holger Kett, and Anette Weisbecker</i>	
Keystroke Biometric Recognition on Chinese Long Text Input	260
<i>Xiaodong Li and Jiafen Liu</i>	
Recommendation Algorithm Design in a Land Exchange Platform	272
<i>Xubin Luo and Jiang Duan</i>	
Erratum to: Normalized Cross-Match: Pattern Discovery Algorithm from Biofeedback Signals	E1
<i>Xueyuan Gong, Simon Fong, Yain-Whar Si, Robert P. Biuk-Aghai, Raymond K. Wong, and Athanasios V. Vasilakos</i>	
Author Index	281

Trends and Applications in Knowledge Discovery and
Data Mining

PAKDD 2016 Workshops, BDM, MLSDA, PACC, WDMBF,
Auckland, New Zealand, April 19, 2016, Revised
Selected Papers

Cao, H.; Li, J.; Wang, R. (Eds.)

2016, XIII, 282 p. 84 illus., Softcover

ISBN: 978-3-319-42995-3