

Contents

An Information Retrieval Approach for Finding Dependent Subspaces of Multiple Views	1
<i>Ziyuan Lin and Jaakko Peltonen</i>	
Predicting Target Events in Industrial Domains	17
<i>Julio Borges, Martin A. Neumann, Christian Bauer, Yong Ding, Till Riedel, and Michael Beigl</i>	
Importance of Recommendation Policy Space in Addressing Click Sparsity in Personalized Advertisement Display	32
<i>Sougata Chaudhuri, Georgios Theocharous, and Mohammad Ghavamzadeh</i>	
Global Flow and Temporal-Shape Descriptors for Human Action Recognition from 3D Reconstruction Data	47
<i>Georgios Th. Papadopoulos and Petros Daras</i>	
Reverse Engineering Gene Regulatory Networks Using Sampling and Boosting Techniques	63
<i>Turki Turki and Jason T.L. Wang</i>	
Detecting Large Concept Extensions for Conceptual Analysis	78
<i>Louis Chartrand, Jackie C.K. Cheung, and Mohamed Bouguessa</i>	
Qualitative and Descriptive Topic Extraction from Movie Reviews Using LDA	91
<i>Christophe Dupuy, Francis Bach, and Christophe Diot</i>	
Towards an Efficient Method of Modeling “Next Best Action” for Digital Buyer’s Journey in B2B	107
<i>Anit Bhandari, Kiran Rama, Nandini Seth, Nishant Niranjana, Parag Chitalia, and Stig Berg</i>	
Detecting Relative Anomaly	117
<i>Richard Neuberg and Yixin Shi</i>	
Optimization for Large-Scale Machine Learning with Distributed Features and Observations	132
<i>Alexandros Nathan and Diego Klabjan</i>	

CCPM: A Scalable and Noise-Resistant Closed Contiguous Sequential Patterns Mining Algorithm	147
<i>Yacine Abboud, Anne Boyer, and Armelle Brun</i>	
Sparse Dynamic Time Warping	163
<i>Youngha Hwang and Saul B. Gelfand</i>	
Improving a Bayesian Decision Model for Supporting Diagnosis of Alzheimer’s Disease and Related Disorders	176
<i>Carolina Medeiros Carvalho, Flávio Luiz Seixas, Aura Conci, Débora Christina Muchaluat-Saade, and Jerson Laks</i>	
Over-Fitting in Model Selection with Gaussian Process Regression	192
<i>Rekar O. Mohammed and Gavin C. Cawley</i>	
Machine Learning-as-a-Service and Its Application to Medical Informatics . . .	206
<i>Ahmad P. Tafti, Eric LaRose, Jonathan C. Badger, Ross Kleiman, and Peggy Peissig</i>	
Anomaly Detection from Kepler Satellite Time-Series Data	220
<i>Nathaniel Grabaskas and Dong Si</i>	
Prediction of Insurance Claim Severity Loss Using Regression Models	233
<i>Ruth M. Ogunnaike and Dong Si</i>	
A Spectral Clustering Method for Large-Scale Geostatistical Datasets	248
<i>Francky Fouedjio</i>	
Vulnerability of Deep Reinforcement Learning to Policy Induction Attacks	262
<i>Vahid Behzadan and Arslan Munir</i>	
Mobile Robot Localization via Machine Learning	276
<i>Alexander Kuleshov, Alexander Bernstein, and Evgeny Burnaev</i>	
An Analysis of the Application of Simplified Silhouette to the Evaluation of k -means Clustering Validity	291
<i>Fei Wang, Hector-Hugo Franco-Penya, John D. Kelleher, John Pugh, and Robert Ross</i>	
Summarization-Guided Greedy Optimization of Machine Learning Model	306
<i>Dymitr Ruta, Ling Cen, and Ernesto Damiani</i>	
Clustering Aided Support Vector Machines	322
<i>Goce Ristanoski, Rahul Soni, Sutharshan Rajasegarar, James Bailey, and Christopher Leckie</i>	

Mining Player Ranking Dynamics in Team Sports.	335
<i>Paul Fomenky, Alfred Noel, and Dan A. Simovici</i>	
ivhd: A Robust Linear-Time and Memory Efficient Method for Visual Exploratory Data Analysis	345
<i>Witold Dzwine and Rafał Wcisło</i>	
Personalized Visualization Based upon Wavelet Transform for Interactive Software Customization	361
<i>Xiaobu Yuan, Manpreet Kaler, and Vijaya Mulpuri</i>	
Automatic Detection of Knee Joints and Quantification of Knee Osteoarthritis Severity Using Convolutional Neural Networks.	376
<i>Joseph Antony, Kevin McGuinness, Kieran Moran, and Noel E. O'Connor</i>	
High Accuracy Predictive Modelling for Customer Churn Prediction in Telecom Industry	391
<i>R. Prashanth, K. Deepak, and Amit Kumar Meher</i>	
You Are What You Tweet: A New Hybrid Model for Sentiment Analysis . . .	403
<i>Arthur Huang, David Ebert, and Parker Rider</i>	
Mining Frequent Closed Set Distinguishing One Dataset from Another from a Viewpoint of Structural Index	417
<i>Yoshiaki Okubo and Makoto Haraguchi</i>	
Methods of Hyperparameter Estimation in Time-Varying Regression Models with Application to Dynamic Style Analysis of Investment Portfolios.	431
<i>Olga Krasotkina, Vadim Mottl, Michael Markov, Elena Chernousova, and Dmitry Malakhov</i>	
Author Index	451

Machine Learning and Data Mining in Pattern
Recognition

13th International Conference, MLDM 2017, New York,
NY, USA, July 15-20, 2017, Proceedings

Perner, P. (Ed.)

2017, IX, 452 p. 129 illus., Softcover

ISBN: 978-3-319-62415-0