

Table of Contents

Comparison of Linear Discriminant Functions by K-fold Cross Validation <i>Shuichi Shinmura</i>	1
Use of Social Microblogging to Motivate Young People (NEETs) to Participate in Distance Education Through www.eBig3.eu" <i>Dace Ratniece</i>	7
Circadian Patterns in Twitter <i>Marijn ten Thij, Sandjai Bhulai, and Peter Kampstra</i>	12
Enhancement of Trajectory Ontology Inference Over Domain and Temporal Rules <i>Rouaa Wannous, Jamal Malki, Alain Bouju, and Cecile Vincent</i>	18
An Annotation Process for Data Visualization Techniques <i>Geraldo Franciscani Jr., Rodrygo L. T. Santos, Raphael Ottoni, Joao Paulo Pesce, Wagner Meira Jr., and Raquel Melo-Minardi</i>	24
Prediction Model Framework for Imbalanced Datasets <i>Maria Rossana de Leon and Eugene Rex Jalao</i>	33
A Study of VEPSO Approaches for Multiobjective Real World Applications <i>Omar Andres Carmona Cortes, Andrew Rau-Chaplin, Duane Wilson, and Jurgen Gaiser-Porter</i>	42
Application of Change-Point Detection in Image Retrieval <i>Dongwei Wei, Yuehua Wu, and Xiaoping Shi</i>	49
Co-movement of European Stock Markets based on Association Rule Mining <i>Youqin Pan, Yong Hu, Elizabeth Haran, and Saverio Manago</i>	54
A Method for Measuring Similarity of Simulation Time-Series Data Based on Dynamic Time Warping <i>Ping Ma, Zhong Zhang, Kaibin Zhao, and Yuning Li</i>	59
Validation of Simulation Model based on Combined Consistency Analysis of Data and Feature <i>Ming Yang, Wei Li, Lingyun Lu, and Song Jiao</i>	65
Early Detection of Critical Faults Using Time-Series Analysis on Heterogeneous Information Systems in the Automotive Industry <i>Thomas Leitner, Christina Feilmayr, and Wolfram Woess</i>	70
GeoTagView: Visualizing Geographic Tags Easily <i>Gianpaolo Pigliasco and Gaetano Zazzaro</i>	76

Document Identification with MapReduce Framework <i>Yenumula Reddy</i>	81
The Economic Benefits of Allocating Spectrum for Mobile Broadband in Korea <i>Jae hyouk Jahng</i>	87
Statistical Uncertainty of Market Network Structures <i>Petr Koldanov, Panos M. Pardalos, and Victor Zamaraev</i>	91
Scalable System for Textual Analysis of Stock Market Prediction <i>Roy Guanyu Lin and Tzu-Chieh Tsai</i>	95
Evolutionary Clustering Analysis of Multiple Edge Set Networks used for Modeling Ivory Coast Mobile Phone Data and Sensemaking <i>Daniel B. Rajchwald and Thomas J. Klemas</i>	100
Property Preservation in Reduction of Data Volume for Mining: A Neighborhood System Approach <i>Ray Hashemi, Azita Bahrami, Nicholas Tyler, Matthew Antonelli, and Bryan Dahlqvist</i>	105
A Decision Support Approach for Quality Management based on Artificial Intelligence Applications <i>Nafissa Yussupova, Maxim Boyko, Diana Bogdanova, and Andreas Hilbert</i>	112
WLBench: A Benchmark for WebLog Data <i>Ahmad Ghazal, Alain Crolotte, and Mohammed Al-Kateb</i>	122
Comparative Analysis of Data Structures for Approximate Nearest Neighbor Search <i>Alexander Ponomarenko, Nikita Avrelín, Bilegsaikhan Naidan, and Leonid Boytsov</i>	125
A Novel Privacy Preserving Association Rule Mining using Hadoop <i>Kangsoo Jung, Sehwa Park, Sungyong Cho, and Seog Park</i>	131