

Table of Contents

An Authorization Model for Data Modeled Using Semantic Web Technologies <i>Jenni Reuben and Simone Fischer-Hubner</i>	1
A Novel Approach to User Involved Big Data Provenance Visualization <i>Ilkay Melek Yazici, Mehmet S. Aktas, and Mehmet Gokturk</i>	10
A Large Scale Synthetic Social Provenance Database <i>Mohamed Jehad Baeth and Mehmet S Aktas</i>	16
On the Weight for Partial Inner Dependence AHP Using Sensitivity Analyses <i>Shin-ichi Ohnishi and Takahiro Yamanoi</i>	23
Customer Churn Prediction in Telecommunication with Rotation Forest Method <i>Mumin Yildiz and Songul Albayrak</i>	26
Data Validation for Big Live Data <i>Malcolm Crowe, Carolyn Begg, Fritz Laux, and Martti Laiho</i>	30
A Pseudometric for Gaussian Mixture Models <i>Linfei Zhou, Wei Ye, Bianca Wackersreuther, Claudia Plant, and Christian Boehm</i>	37
A Data Mining Framework for Product Bundle Design and Pricing <i>Yiming Li, Hai Wang, and Qigang Gao</i>	43
Preference Miner: A Database Tool for Mining User Preferences <i>Markus Endres</i>	52
A Column-Oriented Text Database API Implemented on Top of Wavelet Tries <i>Stefan Bottcher, Rita Hartel, and Jonas Manuel</i>	54
CitySense: Retrieving, Visualizing and Combining Datasets on Urban Areas <i>Danae Pla Karidi, Harry Nakos, Alexandros Efentakis, and Yannis Stavrakas</i>	61
Statistical Implicative Analysis Approximation to KDD and Data Mining <i>Ruben Pazmino, Francisco Garcia, and Miguel Conde</i>	70
A Knowledge Graph for Travel Mode Recommendation and Critiquing <i>Bill Karakostas and Dimitris Kardaras</i>	78
BayesNet and Artificial Neural Network for Nowcasting Rare Fog Events	84

Gaetano Zazzaro, Paola Mercogliano, and Gianpaolo Romano

OntoEDIFACT: An Ontology for the UN/EDIFACT Standard 91
Boulares Ouchenne and Mhamed Itmi

A Causality-based Feature Selection Approach for Multivariate Time Series Forecasting 97
Youssef Hmamouche, Alain Casali, and Lotfi Lakhal

The Absolute Consistency Problem of Graph Schema Mappings with Uniqueness Constraints 103
Takashi Hayata, Yasunori Ishihara, and Toru Fujiwara

A Network-based Approach to Evolution of MEDLINE 111
Andrej Kastrin, Thomas C. Rindfleisch, and Dimitar Hristovski