

Table of Contents

A New Representation of WordNet® using Graph Databases <i>Khaled Nagi</i>	1
FIMIOQR: Frequent Itemsets Mining for Interactive OLAP Query Recommendation <i>Rym Khemiri and Fadila Bentayeb</i>	9
Geometric Mean based Boosting Algorithm <i>Myoung Jong Kim</i>	15
Primitive Operation Aggregation Algorithms for Improving Taxonomies for Large-Scale Hierarchical Classifiers <i>Kiyoshi Nitta</i>	21
Data Management According to the Good Scientific Practice <i>Jan Potthoff, Marius Walk, and Sebastian Rieger</i>	27
Parallel Processing of Multiple Graph Queries Using MapReduce <i>Song-Hyon Kim, Kyong-Ha Lee, Hyebyong Choi, and Yoon-Joon Lee</i>	33
On Using Object-Relational Technology for Querying LOD Repositories <i>Iztok Sarnik</i>	39
Using Social Network Information to Identify User Contexts for Query Personalization <i>Diogo Alves, Marcello Freitas, Thiago Moura, and Damires Souza</i>	45
Finding Nearest Neighbors for Multi-Dimensional Data <i>Yong Shi and Marcus Judd</i>	52
Parallel Genetic Algorithm Model to Extract Association Rules <i>Ahmad Taleb, Anwar Yahya, and Nasser Taleb</i>	56
Optimization of SuperSQL Execution by Query Decomposition <i>Ria Mae Borromeo and Motomichi Toyama</i>	65
Comparison of Subspace Projection Method with Traditional Clustering Algorithms for Clustering Electricity Consumption Data <i>Minghao Piao, Hyeon-Ah Park, Kyung-Ah Kim, and keun Ho Ryu</i>	71
An Approach for Dynamic Materialization of Aggregates in Mixed Application Workloads <i>Stephan Muller, Carsten Meyer, and Hasso Plattner</i>	77

About Summarization in Large Fuzzy Databases <i>Ines BenAli Sougui, Minyar Sassi Hidri, and Amel Grissa Touzi</i>	87
Provenance Policies for Subjective Filtering of the Aggregated Linked Data <i>Tomas Knap</i>	95
Merging Multidimensional Data Models: A Practical Approach for Schema and Data Instances <i>Michael Mireku Kwakye, Iluju Kiringa, and Herna L. Viktor</i>	100
Considerations about Implementation Variants for Position Lists <i>Andreas Schmidt and Daniel Kimmig</i>	108
Aspects of Append-Based Database Storage Management on Flash Memories <i>Robert Gottstein, Ilia Petrov, and Alejandro Buchmann</i>	116
Mapping XML to Key-Value Database <i>Pavel Strnad, Ondrej Macek, and Pavel Jira</i>	121
Typing XPath Subexpressions With Respect to an XML Schema <i>Yasunori Ishihara, Kenji Hashimoto, Atsushi Ohno, Takuji Morimoto, and Toru Fujiwara</i>	128
Modeling a Data Storage System (DSS) for Seamless Real-Time Information Support from Information Manufacturing System (IMS) <i>Mohammad Shamsul Islam and Paul Young</i>	134
Knowledge Enhanced Framework for designing e-Workflow Systems <i>Farhi Marir and John Ndeta</i>	143
Modeling and Simulation Versions of Business Process using Petri Nets <i>Fatma Ellouze, Mohamed Amine Chaabane, Rafik Bouaziz, and Eric Andonoff</i>	150
Parameterized Attribute and Service Levels Semantic Matchmaking Framework for Service Composition <i>Salem Chakhar</i>	159
Sales Prediction with Parametrized Time Series Analysis <i>Michael Schaidnagel, Christian Abele, Fritz Laux, and Ilia Petrov</i>	166
Enhancing Distributed Data Mining Performance by Multi-agent Systems <i>Maria del Pilar Angeles, Francisco Javier Garcia-Ugalde, and Jonathan Cordoba-Luna</i>	174
An Implementation Model for Managing Data and Service Semantics in Systems Integration <i>Miklos Kasza, Vilmos Szucs, Vilmos Bilicki, Gabor Antal, and Andras Banhalmi</i>	182

Explanations of Recommendations Considering Human Factors in Recommender Systems <i>Muhammet Tugberk Isyapar</i>	190
Data and Provenance Management for Climate Effect Studies. Daption of Climate Data with Distribution Based Scaling for Hydrological Simulations <i>Lena Stromback, Kean Foster, and Jorgen Rosberg</i>	198
Dr Warehouse - An Intelligent Software System for Epidemiological Monitoring, Prediction, and Research <i>Vladimir Ivancevic, Marko Knezevic, Milos Simic, Ivan Lukovic, and Danica Mandic</i>	204
Shrinking Data Balls in Metric Indexes <i>Bilegsaikhan Naidan and Magnus Lie Hetland</i>	211
An Epidemiological Data Mining Application Based on Census Databases <i>Joaquin Perez-Ortega, Crispin Zavala-Diaz, Alicia Martinez, Emmanuel Iturbide-Dominguez, Miguel Hidalgo-Reyes, and Adriana Mexicano-Santoyo</i>	217
Clustering XML Data Streams by Structure based on SlidingWindows and Exponential Histograms <i>Mingxia Gao and Furong Chen</i>	224
Feasibility of the Implementation of a UML to XML Evolution Architecture Using Eclipse as Technological Ecosystem <i>Beatriz Perez, Angel Luis Rubio, and Gloria Yanguas</i>	231
Capturing the History and Change Structure of Evolving Data <i>George Papastefanatos, Yannis Stavarakas, and Theodora Galani</i>	235
Business Intelligence in an Educational Landscape <i>Marcio Rodrigo Teixeira and Mehran Misaghi</i>	242
BA: Lean Manufacturing Indicators Applied to HR Applications - An Implementation Study <i>Robson Thanael Poffo and Mehran Misaghi</i>	246