

Table of Contents

Feature Construction for Time Ordered Data Sequences <i>Michael Schaidnagel and Fritz Laux</i>	1
Information Integration with Uncertainty: Performance <i>Inder Dumpa, Raja Kota, and Fereidoon Sadri</i>	7
Universal Evaluation System Data Quality <i>Maria del Pilar Angeles, Francisco Javier Garcia-Ugalde, Carlos Ortiz, Ricardo Valencia, Jhovany Pelcastre, Eduardo Reyes, and Arturo Nava</i>	13
A Semi-automatic Method to Fuzzy-Ontology Design by using Clustering and Formal Concept Analysis <i>Amira Aloui, Alaa Ayadi, and Amel Grissa-Touzi</i>	19
Modeling Ontology-based User Profiles from Company Knowledge <i>Silvia Calegari and Matteo Dominoni</i>	26
A Concept for Plagiarism Detection Based on Compressed Bitmaps <i>Andreas Schmidt, Reinhold Becker, Daniel Kimmig, Robert Senger, and Steffen Scholz</i>	30
Enriching Dimension Hierarchies with Topological Relations to Improve the Development of Spatial Data Warehouse <i>Sana Ezzedine, Sami Yassine Turki, and Sami Faiz</i>	35
In-Memory Distance Threshold Queries on Moving Object Trajectories <i>Michael Gowanlock and Henri Casanova</i>	41
Exploiting the Social Structure of Online Media to Face Transient Heavy Workload <i>Ibrahima Gueye, Idrissa Sarr, and Hubert Naacke</i>	51
Sample Trace: Deriving Fast Approximation for Repetitive Queries <i>Feng Yu, Wen-Chi Hou, and Cheng Luo</i>	59
Efficient Aggregate Cache Revalidation in an In-Memory Column Store <i>Stephan Muller, Lars Butzmann, and Hasso Plattner</i>	66
Enterprise Data Solution Leveraging Data Warehousing for Big Data Veracity at Saudi Aramco <i>Muhammad Khakwani</i>	74
Parallel In-Memory Distance Threshold Queries on Trajectory Databases <i>Michael Gowanlock, Henri Casanova, and David Schanzenbach</i>	80

A Database Synchronization Approach for 3D Simulation Systems <i>Martin Hoppen and Juergen Rossmann</i>	84
Achieving High Availability in D-Box <i>Miroslav Cermak and Filip Zavoral</i>	92
Trustworthy Laboratory Automation <i>Jan Potthoff, Dominic Lutjohann, and Nicole Jung</i>	98
Toward a New Approach of Distributed Databases Design and Implementation <i>Fadoua Hassen and Amel Grissa Touzi</i>	104
An Object-oriented Approach for Extending MySQL into NoSQL with Enhanced Performance and Scalability <i>Hyunju Shim, YoungChul Sohn, YoulWoong Sung, Yonggoo Kang, Iljoo Kim, and Ohoon Kwon</i>	111
Efficient Data Integrity Checking for Untrusted Database Systems <i>Anderson Luiz Silverio, Ricardo Felipe Custodio, Marcelo Carlomagno Carlos, and Ronaldo dos Santos Mello</i>	118
Quantifying the Elasticity of a Database Management System <i>Christian Tinnefeld, Daniel Taschik, and Hasso Plattner</i>	125
Hierarchical Piecewise Linear Approximation <i>Vineetha Bettaiah and Heggere Ranganath</i>	132
Cache Management for Aggregates in Columnar In-Memory Databases <i>Stephan Muller, Ralf Diestelkamper, and Hasso Plattner</i>	139
Survey of RDF Storage Managers <i>Kiyoshi Nitta and Iztok Sarnik</i>	148
Design of Distributed Storage Manager for Large-Scale RDF Graphs <i>Iztok Sarnik and Kiyoshi Nitta</i>	154
Learning Links in MeSH Co-occurrence Network: Preliminary Results <i>Andrej Kastrin and Dimitar Hristovski</i>	161