

## Table of Contents

An Industry Experience on Dynamic Handling of Multiple Database Types for Data Integration Tool <i>Badrul Affandy Bin Ahmad Latfi, Anbarasan Kodandaraman, Chee Kiam Lee, and Tong Khin Thong</i>	1
Clustering of Words in Texts Using Fuzzy Neighborhood <i>CanLun Zhang and Sadaaki Miyamoto</i>	5
Improving Near Duplicate Data Detection via DSound Phonetic Matching Algorithm: A Solution to Address Typographical Problems <i>Cihan Varol and Sairam Hari</i>	9
Query-Based I-Diversity <i>Chittaphone Phonharath, Ryunosuke Takayama, Kenji Hashimoto, and Hiroyuki Seki</i>	15
Exposing the Myth: Object-Relational Impedance Mismatch is a Wicked Problem <i>Christopher Ireland and David Bowers</i>	21
Rule-Based Adaptation of Workflow Patterns for Generic Workflows <i>Marina Tropmann-Frick and Niklas Sasse</i>	27
JAebXR: a Java API for ebXML Registries for Federated Health Information Systems <i>Antonio Messina, Pietro Storniolo, and Alfonso Urso</i>	33
On the Detection of Nontrivial and Cross Language Plagiarisms <i>Andreas Schmidt and Soren Buhler</i>	40
A New Spatial Database Management System Using an Hyperbolic Tree <i>Telesphore Tiendrebeogo</i>	43
Extending PostgreSQL with Column Store Indexes <i>Minoru Nakamura, Tsugichika Tabaru, Yoshifumi Ujibashi, Takushi Hashida, Motoyuki Kawaba, and Lilian Harada</i>	51
A Proposed Architecture to Support the Processing and Analysis of Structured and Unstructured Massive Data Sets in the Brazilian Army <i>Marcio Victorino, Marcal Hokama, and Danilo Silva</i>	53
Analysis of String Comparison Methods During De-Duplication Process <i>Maria del Pilar Angeles, Francisco Garcia-Ugalde, Ricardo Valencia, and Arturo Nava</i>	57
Comparison of Methods Hamming Distance, Jaro, and Monge-Elkan <i>Maria del Pilar Angeles and Adrian Espino-Gamez</i>	63

An Efficient Approach to Triple Search and Join of HDT Processing Using GPU <i>YoonKyung Kim, YoonJoon Lee, and JaeHwan Lee</i>	70
Towards a New Incremental Implementation Approach for Distributed Databases <i>Marwa Bouraoui, Fadoua Hassen, and Grissa touzi Amel</i>	75
OBDBSearch: A Keyword-based Semantic Search for Databases <i>Simone Miraglia, Clarissa Molfino, and Costanza Romano</i>	82
Automatic Knowledge Transfer-based Architecture towards Self-Service Business Intelligence <i>Safwan Sulaiman, Tariq Mahmoud, Jorge Marx Gomez, and Joachim Kurzhofer</i>	90
IES's UIEs for Generating LACs for Arguing that a CI Satisfies SPL <i>Sigram Schindler</i>	97
Applying Fuzzy Weights to Triple Inner Dependence AHP <i>Shin-ichi Ohnishi and Takahiro Yamanoi</i>	104
Near Real-time Synchronization Approach for Heterogeneous Distributed Databases <i>Hassen Fadoua and Grissa Touzi Amel</i>	107
Skyline Objectset: Efficient Selection of Non-dominate Sets from Database <i>Md. Anisuzzaman Siddique, Asif Zaman, and Yasuhiko Morimoto</i>	114
On the Number of Rules and Conditions in Mining Incomplete Data with Lost Values and Attribute-concept Values <i>Jerzy W. Grzymala-Busse and Patrick G. Clark</i>	121
Patent Threat Analysis Search Engine <i>Yung Chang Chi and Hei Chia Wang</i>	127
Dataconda -- A Software Framework for Mining Relational Databases <i>Michele Samorani</i>	132
Efficient Media Digital Library of Summarized Video based on Scalable Video Coding for H.264 (MDLSS): Design and Implementation <i>Hesham Farouk, Mayada Khairy, Kamal El-Dahshan, Amr Abozeid, Alaa Hamdy, and Amr Elsayed</i>	134
Behind the Skyline <i>Markus Endres and Timotheus Preisinger</i>	141
ORPE - A Data Semantics Driven Concurrency Control Mechanism	147

*Tim Lessner, Fritz Laux, and Thomas M Connolly*

Towards Fuzzy Querying of NoSQL Document-oriented Databases 153

*Abir Belhadj Kacem and Amel Grissa Touzi*

Combining Distributed Computing and Massively Parallel Devices to Accelerate Stream Data Processing 159

*David Bednarek, Martin Krulis, Petr Maly, Jakub Yaghob, Filip Zavoral, and Jaroslav Pokorny*

Accelerating Data Mining on Incomplete Datasets by Bitmaps-based Missing Value Imputation 167

*Sameh Shohdy, Yu Su, and Gagan Agrawal*

Capturing the Structure of Internet of Things Systems with Graph Databases 176

*Gilles Privat and Dana Popovici*

Towards Implementing Semantic Literature-Based Discovery with a Graph Database 180

*Dimitar Hristovski, Andrej Kastrin, Dejan Dinevski, and Thomas C Rindflesch*