Table of Contents

Assessing Legislative Alignment – An Ontological Approach 1
Rosetta Romano

Storing and Querying Ontologies in Relational Databases: An Empirical Evaluation of Performance of Database-Based Ontology Stores 6
Raoul Kwuimi and Jean Vincent Fonou-Dombeu

Matching Terminological Heterogeneous Ontologies by Exploiting Partial Alignments 13
Frederik Christiaan Schadd and Nico Roos

From a Consensual Conceptual Level to a Formal Ontological Level: A Case Study in Healthcare Organizations 19
Fabricio Mendonca, Mauricio Almeida, Antonio Soares, and Cristovao Sousa

News Curation Service Using Semantic Graph Matching 25
Ryohei Yokoo, Takahiro Kawamura, Yuichi Sei, Yasuyuki Tahara, and Akihiko Ohsuga

Temporal RDF System for Power Utilities 32
Mohamed Gaha, Arnaud Zinflou, Alexandre Bouffard, Luc Vouligny, Mathieu Viau, Christian Langheit, and Etienne Martin

DataBearings: An Efficient Semantic Approach to Data Virtualization and Federation 38
Artem Katasonov

Semantic Location Models for Bioenergy and Biofuel Projects 44
Krishna Sapkota, Pathmeswaran Raju, William Byrne, Craig Chapman, and Lynsey Melville

A Semantic Data Fragmentation Approach for RDF Data Management 51
Meisam Booshehri and Peter Luksch

?OWL-Manager: A Tool for Managing Temporal Semantic Web Documents in the ?OWL Framework 56
Abir Zekri, Zouhaier Brahmia, Fabio Grandi, and Rafik Bouaziz

Semantic OLAP with FluentEditor and Ontorion Semantic Excel Toolchain 65
Dariusz Dobrowolski, Pawel Kaplanski, Andrzej Marciniak, and Zdzislaw Lojewski

Information Extraction from Unstructured Texts by Means of Syntactic Dependencies and Constituent Trees 70
Raoul Schonhof, Axel Tenschert, and Alexey Cheptsov

Data-driven Context Discovery Model for Semantic Computing in the Big Data Era 76
Takafumi Nakanishi

Data Management in Cyber-Physical Work Environments 82
Michael Clauss, Janek Gotze, Marcus Hofmann, Egon Muller, and Christian-Andreas Schumann

Mobile Queries using Semantic Processing into Augmented Reality 86
Itzel Coral, Miguel Marti?nez, Fe?lix Mata Rivera, Roberto Zagal Zagal, and Consuelo Garci?a

Deep Learning for Large-Scale Sentiment Analysis Using Distributed Representations 92
Kazuhei Katoh and Takashi Ninomiya

Modelling of an Ontology for a Communication Platform 97
Jurgen Mossgraber, Manfred Schenk, and Desiree Hilbring

Text Document Clustering for Topic Discovery by Hypergraph Construction 103
Wei-San Lin, Charles Chih-Ho Liu, and I-Jen Chiang

Ontology-Based Adaptive Information System Framework 110
Louis Bherer, Luc Vouligny, Mohamed Gaha, Billel Redouane, and Christian Desrosiers

Application of the Tensor-Based Recommendation Engine to Semantic Service Matchmaking 116
Andrzej Szwabe, Michal Ciesielczyk, Pawel Misiorek, and Michal Blinkiewicz

On Establishing Behaviorally Adoptive Semantic Narratives 126
Jason Bryant, Matthew Paulini, Gregory Hasseler, and Norman Ahmed