Contents

Linked Open Data and Data Warehouses

Modeling and Querying Spatial Data Warehouses on the Semantic Web . . . . . 3
Nurefşan Gür, Katja Hose, Torben Bach Pedersen, and Esteban Zimányi

RDF Graph Visualization by Interpreting Linked Data as Knowledge . . . . 23
Rathachai Chawuthai and Hideaki Takeda

Linked Open Vocabulary Recommendation Based on Ranking
and Linked Open Data. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 40
Ioannis Stavrakantonakis, Anna Fensel, and Dieter Fensel

Heuristic-Based Configuration Learning for Linked Data Instance Matching . . 56
Khai Nguyen and Ryutaro Ichise

Alignment Aware Linked Data Compression . . . . . . . . . . . . . . . . . . . . . . . 73
Amit Krishna Joshi, Pascal Hitzler, and Guozhu Dong

ERA-RJN: A SPARQL-Rank Based Top-k Join Query Optimization . . . . . 82
Zhengrong Xiao, Fengjiao Chen, Fangfang Xu, and Jinguang Gu

Information Extraction

CNME: A System for Chinese News Meta-Data Extraction . . . . . . . . . . . 91
Junbo Xia, Fei Xie, Mengdi Zhang, Yu Su, and Huanbo Luan

Bootstrapping Yahoo! Finance by Wikipedia for Competitor Mining . . . . . 108
Tong Ruan, Lijuan Xue, Haofen Wang, and Jeff Z. Pan

Leveraging Chinese Encyclopedia for Weakly Supervised Relation
Extraction . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 127
Xiyue Guo and Tingting He

Improving Knowledge Base Completion by Incorporating
Implicit Information . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 141
Wenqiang He, Yansong Feng, and Dongyan Zhao

Automatic Generation of Semantic Data for Event-Related Medical
Guidelines . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 154
Yuling Fan, Rui Qiao, Jinguang Gu, and Zhisheng Huang
Knowledge Engineering and Management

Evaluating and Comparing Web-Scale Extracted Knowledge Bases in Chinese and English ......................................................... 167
   Tong Ruan, Xu Dong, Haofen Wang, and Yang Li

Computing the Semantic Similarity of Resources in DBpedia for Recommendation Purposes .................................................. 185
   Guangyuan Piao, Safina showkat Ara, and John G. Breslin

Identifying an Agent’s Preferences Toward Similarity Measures in Description Logics .......................................................... 201
   Teeradaj Racharak, Boontawee Suntisrivaraporn, and Satoshi Tojo

A Contrastive Study on Semantic Prosodies of Minimal Degree Adverbs in Chinese and English .......................................... 209
   Zhong Wu and Lihua Li

Question Answering

A Graph Traversal Based Approach to Answer Non-Aggregation Questions over DBpedia .......................................................... 219
   Chenhao Zhu, Kan Ren, Xuan Liu, Haofen Wang, Yiding Tian, and Yong Yu

Answer Type Identification for Question Answering: Supervised Learning of Dependency Graph Patterns from Natural Language Questions .......................................................... 235
   Andrew D. Walker, Panos Alexopoulos, Andrew Starkey, Jeff Z. Pan, José Manuel Gómez-Pérez, and Advaith Siddharthan

Ontologies, Semantics, and Reasoning

PROSE: A Plugin-Based Paraconsistent OWL Reasoner .......................................................... 255
   Wenrui Wu, Zhiyong Feng, Xiaowang Zhang, Xin Wang, and Guozheng Rao

Meta-Level Properties for Reasoning on Dynamic Data .......................................................... 271
   Yuting Zhao, Guido Vetere, Jeff Z. Pan, Alessandro Faraotti, Marco Monti, and Honghan Wu

Distance-Based Ranking of Negative Answers .......................................................... 280
   Jianfeng Du, Can Lin, and Kunxun Qi

Contrasting RDF Stream Processing Semantics .......................................................... 289
   Minh Dao-Tran, Harald Beck, and Thomas Eiter
In-Use

Towards an Enterprise Entity Hub: Integration of General and Enterprise Knowledge .......................................................... 301
  Haklae Kim, Jeongsoo Lee, and Jungyeon Yang

Ontology Development for Interoperable Database to Share Data in Service Fields: Towards Evaluation of Robotic Devices for Nursing Care .... 311
  Satoshi Nishimura, Ken Fukuda, Kentaro Watanabe, Hiroyasu Miwa, and Takuichi Nishimura

Efficiently Finding Paths Between Classes to Build a SPARQL Query for Life-Science Databases .................................................. 321
  Atsuko Yamaguchi, Kouji Kozaki, Kai Lenz, Hongyan Wu, Yasunori Yamamoto, and Norio Kobayashi

Author Index ......................................................................................................................................................... 331
Semantic Technology
5th Joint International Conference, JIST 2015, Yichang, China, November 11-13, 2015, Revised Selected Papers
Qi, G.; Kozaki, K.; Pan, J.Z.; Yu, S. (Eds.)
2016, XIII, 332 p. 84 illus., Softcover
ISBN: 978-3-319-31675-8