Guilin Qi · Kouji Kozaki Jeff Z. Pan · Siwei Yu (Eds.)

Semantic Technology

5th Joint International Conference, JIST 2015 Yichang, China, November 11–13, 2015 Revised Selected Papers



Contents

Linked Open Data and Data Warehouses

Modeling and Querying Spatial Data Warehouses on the Semantic Web Nurefsan Gür, Katja Hose, Torben Bach Pedersen, and Esteban Zimányi	3
RDF Graph Visualization by Interpreting Linked Data as Knowledge Rathachai Chawuthai and Hideaki Takeda	23
Linked Open Vocabulary Recommendation Based on Ranking and Linked Open Data	40
Heuristic-Based Configuration Learning for Linked Data Instance Matching Khai Nguyen and Ryutaro Ichise	56
Alignment Aware Linked Data Compression	73
ERA-RJN: A SPARQL-Rank Based Top-k Join Query Optimization Zhengrong Xiao, Fengjiao Chen, Fangfang Xu, and Jinguang Gu	82
Information Extraction	
CNME: A System for Chinese News Meta-Data Extraction Junbo Xia, Fei Xie, Mengdi Zhang, Yu Su, and Huanbo Luan	91
Bootstrapping Yahoo! Finance by Wikipedia for Competitor Mining Tong Ruan, Lijuan Xue, Haofen Wang, and Jeff Z. Pan	108
Leveraging Chinese Encyclopedia for Weakly Supervised Relation Extraction	127
Improving Knowledge Base Completion by Incorporating Implicit Information Wenqiang He, Yansong Feng, and Dongyan Zhao	141
Automatic Generation of Semantic Data for Event-Related Medical Guidelines	154

Knowledge Engineering and Management

Evaluating and Comparing Web-Scale Extracted Knowledge Bases in Chinese and English Tong Ruan, Xu Dong, Haofen Wang, and Yang Li	167
Computing the Semantic Similarity of Resources in DBpedia for Recommendation Purposes	185
Identifying an Agent's Preferences Toward Similarity Measures in Description Logics	201
A Contrastive Study on Semantic Prosodies of Minimal Degree Adverbs in Chinese and English	209
Question Answering	
A Graph Traversal Based Approach to Answer Non-Aggregation Questions over DBpedia Chenhao Zhu, Kan Ren, Xuan Liu, Haofen Wang, Yiding Tian, and Yong Yu	219
Answer Type Identification for Question Answering: Supervised Learning of Dependency Graph Patterns from Natural Language Questions	235
Ontologies, Semantics, and Reasoning	
PROSE: A Plugin-Based Paraconsistent OWL Reasoner Wenrui Wu, Zhiyong Feng, Xiaowang Zhang, Xin Wang, and Guozheng Rao	255
Meta-Level Properties for Reasoning on Dynamic Data Yuting Zhao, Guido Vetere, Jeff Z. Pan, Alessandro Faraotti, Marco Monti, and Honghan Wu	271
Distance-Based Ranking of Negative Answers	280
Contrasting RDF Stream Processing Semantics	289

In-Use

Towards an Enterprise Entity Hub: Integration of General and Enterprise Knowledge	301
Ontology Development for Interoperable Database to Share Data in Service Fields: Towards Evaluation of Robotic Devices for Nursing Care	311
Efficiently Finding Paths Between Classes to Build a SPARQL Query for Life-Science Databases Atsuko Yamaguchi, Kouji Kozaki, Kai Lenz, Hongyan Wu, Yasunori Yamamoto, and Norio Kobayashi	321
Author Index	331