

2012 Eighth International Conference on Semantics, Knowledge and Grids

(SKG 2012)

**Beijing, China
22 – 24 October 2012**



**IEEE Catalog Number: CFP1230A-PRT
ISBN: 978-1-4673-2561-5**

2012 Eighth International Conference on Semantics, Knowledge and Grids

SKG 2012

Table of Contents

Preface.....	ix
Organizing Committee.....	x
Program Committee.....	xi
Reviewers.....	xii

Regular Papers

A Truth Maintenance System for Epistemic Programming Environment	1
<i>Yucih Goto and Jingde Cheng</i>	
Detection of Distributed Attacks in Hybrid & Public Cloud Networks	9
<i>Syed Raheel Hassan, Julien Bourgeois, Vaidy Sunderam, and Li Xiong</i>	
Applications of Provenance Data for Cloud Infrastructure	16
<i>Muhammad Imran and Helmut Hlavacs</i>	
NeTrOS: A Virtual Computing Environment towards Instant Service of Network Software	24
<i>Tianyu Wo, Chunming Hu, Jianxin Li, and Jinpeng Huai</i>	
Enabling Green IT through Building a Virtual Desktop Infrastructure	32
<i>Don-Anthony Dasilva, Lu Liu, Nik Bessis, and Yongzhao Zhan</i>	
An Unsupervised Technical Readability Ranking Model by Building a Conceptual Terrain in LSI	39
<i>Shoaib Jameel and Xiaojun Qian</i>	
A Survey of RE-specific Wikis for Distributed Requirements Engineering	47
<i>Han Lai, Rong Peng, Dong Sun, Fei Shao, and Yousong Liu</i>	
Theory for Semantic Relation Computing and its Application in Semantic Link Network	56
<i>Yunchuan Sun, Cheng Lu, Hongli Yan, and Rongfang Bie</i>	
Automatic Facet Extraction Based on Multidimensional Semantic Index	64
<i>Xiao Wei, Xiangfeng Luo, and Qing Li</i>	

Preemptive Hadoop Jobs Scheduling under a Deadline	72
<i>Li Liu, Yuan Zhou, Ming Liu, Guandong Xu, Xiwei Chen, Dangping Fan, and Qianru Wang</i>	
The VPH-Share Data Management Platform: Enabling Collaborative Data Management for the Virtual Physiological Human Community	80
<i>Martin Koehler, Richard Knight, Siegfried Benkner, Yuriy Kaniovskyi, and Steven Wood</i>	
Particle Mixed Membership Stochastic Block Model	88
<i>Yan Zhang, Qixia Jiang, and Maosong Sun</i>	
A Business Ontology to Enable Semantic Matchmaking in Open Cloud Markets	96
<i>Giuseppe Di Modica, Giuseppe Petralia, and Orazio Tomarchio</i>	
An Exploratory Study of Enhancing Text Clustering with Auto-Generated Semantic Tags	104
<i>Xuning Tang and Jiangbo Dang</i>	
SKMT: A Semantic Knowledge Management Tool for Content Tagging, Search and Management	112
<i>Murat Kalender and Jiangbo Dang</i>	
Advances of the Semantic Link Network	120
<i>Shenling Wang, Yunchuan Sun, Hongyang Zhang, Xiaofeng Yu, and Rongfang Bie</i>	
Survey of Service Description Languages and Their Issues in Cloud Computing	128
<i>Le Sun, Hai Dong, and Jamshaid Ashraf</i>	
A Semantically Structured Approach to Service Community Discovery	136
<i>Anping Zhao and Yan Ma</i>	
A Context-Aware Automatic Chinese Transliterated Person Names Recognition Approach	143
<i>Zuxing Wang, Xiaoting Zhu, and Zhao Lu</i>	
Event-B Formalisation of Web Services for Dynamic Composition	150
<i>Lazhar Hamel, Mohamed Graiet, and Walid Gaaloul</i>	
An Interaction Model for Literature Recommendation Based on Cognitive Principle	157
<i>Xue Chen, Chao Wu, and Yinghu Gao</i>	
Fuzzy-MSOM: A New Fuzzy Clustering Approach Based on Neural Network	165
<i>Balkis Abidi, Sadok Ben Yahia, and Amel Bouzeghoub</i>	
An Embedded Co-AdaBoost and Its Application in Classification of Software Document Relation	173
<i>Jin Liu, Juan Li, Yuan Xie, Jeff Lei, and Qiping Hu</i>	

Short Papers

Semantics-Based Extraction of Webpage Main Text	181
<i>Han Fengjiao and Zhou Zhurong</i>	
Context Search Based on Inconsistent Ontology Reasoning	185
<i>Zhou Zhurong and Wang Min</i>	
Research on the Influence of Micro-bloggers–Take Sina Celebrity Micro-blog as an Example	189
<i>Yuan Zhang and Yuqian Bai</i>	
A Levenberg-Marquardt Neural Network Model with Rough Set for Protecting Citrus from Frost Damage	193
<i>Wei Zeng, Zili Zhang, and Chao Gao</i>	
A Novel Ontology-Based Approach of Chinese Person Name Disambiguation	197
<i>Xiaoting Zhu and Zhao Lu</i>	
Criminal Detection Based on Social Network Analysis	201
<i>Yao Xu, Li Mingyang, An Ningning, and Zhao Xinchao</i>	
A Survey on the Semantic Link Network	205
<i>Jingqiang Chen</i>	
A Weibo-Oriented Method for Unknown Word Extraction	209
<i>Shuai Zhang, Qianren Liu, and Lei Wang</i>	
Density Based Collective Spatial Keyword Query	213
<i>Li Zhang, Xiaoping Sun, and Hai Zhuge</i>	
A Max-Plus Algebra Approach for Network-on-Chip End-to-End Delay Estimation	217
<i>Baoliang Li, Jie Zhao, Junhui Wang, and Wenhua Dou</i>	
Faceted Navigation on Text	221
<i>Bei Xu</i>	
Semantic Distributed Resource Discovery for Multiple Resource Providers	225
<i>Chariklis Pittaras, Mattijs Ghijsen, Adianto Wibisono, Paola Grosso, Jeroen Van Der Ham, and Cees de Laat</i>	
Evaluating Structure of Complex Networks by Navigation Entropy	229
<i>Xiaoping Sun</i>	
A Large-Scale Online Search System of High-Dimensional Vectors Based on Key-Value Store	233
<i>Yuezhao Zhang, Li Zha, Jia Liu, and Zhiwei Xu</i>	
Towards Collecting Commonsense Knowledge with Hint Questions	237
<i>Liangjun Zang, Cong Cao, and Cungen Cao</i>	

An Improved Method to Building a Score Lexicon for Chinese Sentiment Analysis	241
<i>Haiping Zhang, Zhenzhi Yu, Ming Xu, and Yueling Shi</i>	
Mitigation of Sybil Attacks in Structured P2P Overlay Networks	245
<i>Zied Trifa and Maher Khemakhem</i>	
A Sustainable Building Application Design Based on the mOSAIC API and Platform	249
<i>Vlado Stankovski and Matija König</i>	
Watermarking Technique for Wireless Sensor Networks: A State of the Art	253
<i>Bambang Harjito, Vidyasagar Potdar, and Jaipal Singh</i>	
Constructing Open E-learning Framework Based on Collaborative Ontology	257
<i>Jian Liao, Yanqing Yang, Xu Yu, and Zhixing Huang</i>	
Exploring OWL-DL Primitives for Automatic Ontology Alignment Tools Parametrization	261
<i>Marouen Kachroudi, Sadok Ben Yahia, and Sami Zghal</i>	
Integrating Financial Data Using Semantic Web for Improved Visibility	265
<i>Jamshaid Ashraf and Omar Khadeer Hussain</i>	
A Multipath Routing Algorithm Based on OSPF Routing Protocol	269
<i>Li Lan, Li Li, and Chen Jianya</i>	
Explanation of Transfer Function for the Myth of Agile Service Development	273
<i>Juan Li, Zhen Zeng, Yuxi Chen, Jin Liu, and Qiping Hu</i>	
Poster Papers	
A Semantic++ Social Search Engine Framework in the Cloud	277
<i>Guigang Zhang, Chao Li, Chunxiao Xing, and Guigang Zhang</i>	
A Logic-Based RBAC Framework for Flexible Policies	279
<i>Wei Zhang and Zuoquan Lin</i>	
Re-evaluation of Individual Performance in the 2012 UEFA Euro Cup Tournament	283
<i>Juan Li, Yaqi Deng, Zhen Zeng, Jin Liu, and Qiping Hu</i>	
Author Index	285