

2013 Ninth International Conference on Semantics, Knowledge and Grids

(SKG 2013)

**Beijing, China
3-4 October 2013**



**IEEE Catalog Number: CFP1330A-POD
ISBN: 978-1-4799-3013-5**

2013 Ninth International Conference on Semantics, Knowledge and Grids

SKG 2013

Table of Contents

Preface.....	viii
Organizing Committee.....	ix
Program Committee.....	x

Keynotes

A Software Defined Self-Aware Network: The Cognitive Packet Network	1
<i>Erol Gelenbe</i>	
Recommendation Techniques Based on Off-Line Data Processing a Multifaceted Survey	6
<i>Yongli Ren, Gang Li, and Wanlei Zhou</i>	

Regular Papers

PaaS-Independent Approach to Provision Appropriate Cloud Resources for SCA-based Applications Deployment	14
<i>Sami Yangui, Marwa Ben Nasrallah, and Samir Tata</i>	
Automated Theorem Finding by Forward Deduction Based on the Semi-lattice Model of Formal Theory: A Case Study in NBG Set Theory	22
<i>Hongbiao Gao, Yuichi Goto, and Jingde Cheng</i>	
Semantic Analysis for Keywords Based User Segmentation from Internet Data	30
<i>Weichang Du and Weihong Song</i>	
An Access Control Model for Organisational Management in Enterprise Architecture	37
<i>Khaled Gaaloul and H. A. Proper</i>	
Formal Verification of SCA Assembly Model with Event-B	44
<i>Aida Lahouij, Lazhar Hamel, and Mohamed Graiet</i>	

Using Association Link Network Model for Organizing Video Resources from Web	52
<i>Zheng Xu, Xiangfeng Luo, Chen Liang, Fenglin Zhi, and Lin Mei</i>	
Exploring Citation-Based Knowledge Flow in Scientific Research	58
<i>Junsheng Zhang, Huilin Wang, and Yunchuan Sun</i>	
Semantic-Driven Configuration of Internet of Things Middleware	66
<i>Charith Perera, Arkady Zaslavsky, Michael Compton, Peter Christen, and Dimitrios Georgakopoulos</i>	
A Resource Evaluation Model Based on Entropy Optimization Toward Green Cloud	74
<i>Liyun Zuo, Lei Shu, Chunsheng Zhu, and Zhangbing Zhou</i>	
Designing a Hierarchical Graph Kernel for Semantic Link Network	82
<i>Zhiying Zhang, Li Peng, and Zhixing Huang</i>	
Using Quadtree-Based Semantic Link Network for Image Classification	90
<i>Li Peng, Lixiang Shi, and Zhixing Huang</i>	
An Efficient Multicore Based Parallel Computing Approach for TSP Problems	98
<i>Ying Li, Kai Ma, and Jiong Zhang</i>	
An Improved Genetic Algorithm for Cost-Effective Data-Intensive Service Composition	105
<i>Lijuan Wang, Jun Shen, Junzhou Luo, and Fang Dong</i>	
Threshold and Associative Based Classification for Social Spam Profile Detection on Twitter	113
<i>William Hua and Yanqing Zhang</i>	
Searching in Cloud Object Storage by Using a Metadata Model	121
<i>Muhammad Imran and Helmut Hlavacs</i>	
Ontology Merging: Compatible and Incompatible Ontology Mappings	129
<i>Muhammad Aun Abbas and Giuseppe Berio</i>	
A Survey of Semantic Web Services Formalisms	135
<i>Hai H. Wang, Nick Gibbins, Terry Payne, and Alina Patelli</i>	
Query Expansion Based on the Distance Constraint Activation of Human Memory	143
<i>Xiaoyu Zhao and Xiangfeng Luo</i>	
Sentimental Space Based Analysis of User Personalized Sentiments	151
<i>Xinzhi Wang and Xiangfeng Luo</i>	
3-Hop: A Novel Hop-Based Reachability Index	157
<i>Xiaorui Jiang, Xiaoping Sun, Qiang Zeng, and Hai Zhuge</i>	
Social Sensing Enhanced Time Ruler for Real-Time Bus Service	165
<i>Jin Liu, Caixin Gong, Juan Li, Jian Li, and Xiaohui Cui</i>	

Short Papers

Data Compression Techniques and Algorithms for Effectively and Efficiently Managing Multidimensional Stream Cubes over Grids	173
<i>Alfredo Cuzzocrea</i>	
Bridge Rule Based D3 L Reasoning	178
<i>Jianhua Zhang, Wenjie Wang, Zhongzhi Shi, Jinpeng Yue, Baoyuan Qi, and Dongping Tian</i>	
A High-Precision Approach of Traffic Anomaly Based on Fractal and Binary Symbolic	182
<i>Sun Meiyu and Lv Xinjun</i>	
An R2RML-based Mapping System from Metal Materials Database to Ontology	186
<i>Chao Dong, Xiaoming Zhang, and Wanzhen Zhou</i>	
Research on the Social Acquaintance Network Oriented Group Buying	190
<i>Yiping Wen, Jianxun Liu, and Zhigang Chen</i>	
Dynamic Description Logic Based Semantics Web Service Composition	194
<i>Jianhua Zhang, Wenjie Wang, Zhongzhi Shi, Jinpeng Yue, and Bo Zhang</i>	
Concept Based Query Expansion	198
<i>Abdoulahi Boubacar and Zhendong Niu</i>	
Rule Based Faceted Navigation on Semantic Link Network	202
<i>B. Xu and H. Zhuge</i>	
An Incremental Weibo-Oriented Method for Unknown Word and Topic Extraction	206
<i>Qianren Liu and Lei Wang</i>	
Location-Driven Geographical Topic Discovery	210
<i>Li Zhang, Xiaoping Sun, and Hai Zhuge</i>	
Cognitive-Based Multi-document Summarization Approach	214
<i>Jingqiang Chen and Wei Li</i>	
Automatic Maintenance of the Category Hierarchy	218
<i>Lei He and Xiaoping Sun</i>	
Author Index	222