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The Semantic Web – ASWC 2006

First Asian Semantic Web Conference
Beijing, China, September 3-7, 2006
Proceedings

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Library of Congress Control Number: 2006931395

CR Subject Classification (1998): H.4, H.3, C.2, H.5, F.3, I.2, K.4

LNCS Sublibrary: SL 3 – Information Systems and Application, incl. Internet/Web and HCI

ISSN 0302-9743
ISBN-10 3-540-38329-8 Springer Berlin Heidelberg New York
ISBN-13 978-3-540-38329-1 Springer Berlin Heidelberg New York

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Springer is a part of Springer Science+Business Media
springer.com

© Springer-Verlag Berlin Heidelberg 2006
Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 11836025 06/3142 5 4 3 2 1 0

Preface

The International Semantic Web Conference (ISWC) and the European Semantic Web Conference (ESWC) present the latest results in research and application of the Semantic Web technologies. Both have contributed to the promotion of research on the Semantic Web in their respective regions. Research on the Semantic Web needs global activity which necessarily requires the spread of the Semantic Web over Asia where it has been under development. The series of Asian Semantic Web Conferences (ASWC) have therefore been established with the intention of fostering research and development of the Semantic Web and its related technology in Asia by the East Web project, <http://odle.dit.unitn.it/eastweb/>, whose objectives include fostering and promoting the cooperation between European and Asian Institutions involved in IT education and research. The first ASWC was held in Beijing, during September 3–7, 2006, in this context.

We initially received 253 submissions and found 221 valid submissions of abstracts after a screening process. We finally received 208 full papers each of which was reviewed seriously by three Program Committee members and we accepted 36 full papers and 36 short papers. The acceptance rate of full papers is 18%, which we are proud of. The acceptance rate of all the accepted papers is 36%. Differently from ISWC/ESWC, industrial track papers of ASWC 2006 were reviewed by the Program Committee of the research track with the same quality level but with different criteria, that is, practicality was considered more important than originality. We accepted eight papers, four of them are full papers and four short papers, which are included in the above-mentioned 72 papers. The major characteristic of the topics of ASWC 2006 is that 1/4 of the total papers are ontology related. Topics covered by the accepted papers are as follows:

Ontology-related papers:	18
Ontology integration and interoperability	7
Ontology alignment	4
Ontology and theory	4
Ontology and tools	3
Applications	10
Semantic Web services	9
Reasoning	5
Annotation	4
Social network and RSS	4
Peer-to-Peer	4
Database	4
Information search	3
Document and recommendation	3
Industrial track	8

Accepted papers come from 18 countries, which shows that ASWC 2006 is quite international, and their statistics in terms of country are as follows:

China	30
Korea	11
Japan	10
Ireland	4
Austria	2
Finland	2
USA	2
Australia	1
Belgium	1
France	1
Germany	1
Greece	1
Iran	1
Italy	1
Kuwait	1
Norway	1
Thailand	1
UK	1

ASWC 2006 consisted of a three-day main conference which included paper and poster tracks and three invited talks, a two-day workshop/tutorial and an Industrial Day. The three invited speakers were Jim Hendler, University of Maryland at College Park, USA, Hai Zhgue, Institute of Computing Technology, Chinese Academy of Sciences, China and Enrico Motta, The Open University, UK.

Jim Hendler talked about KR issues in the Semantic Web era under the title of “The Semantic Web: A Network of Understanding.” He discussed major characteristics of the new-generation KR such as “extra-logical” infrastructure, semantic interoperability beyond a syntactic one, heterogeneity, scalability and so on. It was also his intention to confirm that Semantic Web KR is different from traditional AI. Hai Zhgue’s talk was entitled “Transformation from OWL Description to Resource Space Model.” He discussed the necessity of the synergy of semantics in the real world, the document world and the mental abstraction world. On the basis of his resource space model (RSM), he discussed an automatic translation of OWL descriptions into resource space as a step toward his ultimate goal. The killer applications of the Semantic Web were one of the serious topics. Enrico Motta discussed the topic in his talk on “Next-Generation Semantic Web Applications.” He analyzed the current state of the art of Semantic Web applications followed by their main features and stressed the importance of shifting from the first-generation to the second-generation applications by exploiting the increased heterogeneity of semantic sources.

Before the main conference, we had seven workshops:

- Making the Semantic Web Services Relevant to Industry
- Semantic e-science
- Semantic Web Education and Training
- Semantic Technologies, Educational Standards, e-Learning Application Vocabularies, and OpenCourseWare
- Semantic Web Applications and Tools Workshop
- Web Search Technology—from Search to Semantic Search
- Service Discovery on the WWW

and three tutorials:

- Semantic Web Services—State of Affairs
- XML Query Reformulation for XPath, XSLT and XQuery
- Tools and Applications for the Corporate Semantic Web

All the events arranged in ASWC 2006 were very successful and contributed to the facilitation of Semantic Web research in Asia as well as the cross-fertilization among researchers working in academia and industries. We believe we have made a good start to the ASWC series.

As Program Committee Co-chairs and Conference Chair, we are grateful to the Program Committee members listed below and to the additional reviewers for their enormous effort in reviewing to select these wonderful papers. Without their contribution, this conference would not have happened. Considering ASWC 2006 was the first conference in Asia, the organization went smoothly thanks to the strong leadership of the Local Organizing Committee Chair, Juanzi Li, to whom our special thanks go. We also would like to thank the sponsors listed below for their monetary support, which was another key factor of the great success of ASWC 2006.

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Table of Contents

Invited Talks

The Semantic Web: A Network of Understanding	1
<i>Jim Hendler</i>	
Transformation from OWL Description to Resource Space Model	4
<i>Hai Zhuge, Peng Shi, Yunpeng Xing, Chao He</i>	
Next Generation Semantic Web Applications	24
<i>Enrico Motta, Marta Sabou</i>	

Annotation

Hierarchical Topic Term Extraction for Semantic Annotation in Chinese Bulletin Board System	30
<i>Xiaoyuan Wu, Shen Huang, Jie Zhang, Yong Yu</i>	
Automatic Annotation Using Citation Links and Co-citation Measure: Application to the Water Information System	44
<i>Lylia Abrouk, Abdelkader Gouaïch</i>	
Semantic Annotation Using Horizontal and Vertical Contexts	58
<i>Mingcai Hong, Jie Tang, Juanzi Li</i>	
Semantic Wiki as a Lightweight Knowledge Management System	65
<i>Hendry Muljadi, Hideaki Takeda, Aman Shakya, Shoko Kawamoto, Satoshi Kobayashi, Asao Fujiyama, Koichi Ando</i>	

Ontology Alignment

Partition-Based Block Matching of Large Class Hierarchies	72
<i>Wei Hu, Yuanyuan Zhao, Yuzhong Qu</i>	
Towards Quick Understanding and Analysis of Large-Scale Ontologies . . .	84
<i>Miao Xiong, YiFan Chen, Hao Zheng, Yong Yu</i>	
Matching Large Scale Ontology Effectively	99
<i>Zongjiang Wang, Yinglin Wang, Shensheng Zhang, Ge Shen, Tao Du</i>	

Finding Important Vocabulary Within Ontology 106
Xiang Zhang, Hongda Li, Yuzhong Qu

Document and Recommendation

Ontology-Based Similarity Between Text Documents on Manifold 113
Guihua Wen, Lijun Jiang, Nigel R. Shadbolt

A Formalism of XML Restructuring Operations 126
Jixue Liu, Ho-Hyun Park, Millist Vincent, Chengfei Liu

FTT Algorithm of Web Pageviews for Personalized Recommendation 133
Yunfei Shen, Zheng Qin, Kun Yuan, Xiaowei Luo

Social Network and RSS

D-FOAF: Distributed Identity Management with Access Rights
Delegation 140
*Sebastian Ryszard Kruk, Sławomir Grzonkowski, Adam Gzella,
Tomasz Woroniecki, Hee-Chul Choi*

Community Focused Social Network Extraction 155
*Masahiro Hamasaki, Yutaka Matsuo, Keisuke Ishida,
Yoshiyuki Nakamura, Takuichi Nishimura, Hideaki Takeda*

Behavioral Analysis Based on Relations in Weblogs 162
*Tadanobu Furukawa, Tomofumi Matsuzawa, Yutaka Matsuo,
Koki Uchiyama, Masayuki Takeda*

UniRSS: A New RSS Framework Supporting Dynamic Plug-In of RSS
Extension Modules 169
Eui-Hyun Jung

Ontology Integration and Interoperability 1

Ontology-Based RBAC Specification for Interoperation in Distributed
Environment 179
Di Wu, Xiyuan Chen, Jian Lin, Miaoliang Zhu

Business Process Collaboration Using Semantic Interoperability:
Review and Framework 191
*Ruinan Gong, Qing Li, Ke Ning, Yuliu Chen,
David O'Sullivan*

An Ontology Architecture for Integration of Ontologies	205
<i>Jeongsoo Lee, Heekwon Chae, Kwangsoo Kim, Cheol-Han Kim</i>	

Automatic Alignment of Ontology Eliminating the Probable Misalignments	212
<i>Seddiqui Md. Hanif, Yohei Seki, Masaki Aono</i>	

Ontology Integration and Interoperability 2

Semantic Integration of Enterprise Information: Challenges and Basic Principles	219
<i>Jingtao Zhou, Mingwei Wang</i>	

Application Integration Using Conceptual Spaces (CSpaces)	234
<i>Francisco Martín-Recuerda</i>	

A New Evaluation Method for Ontology Alignment Measures	249
<i>Babak Bagheri Hariri, Hassan Abolhassani</i>	

Representing and Reasoning with Application Profiles Based on OWL and OWL/XDD	256
<i>Photchanan Ratanajaipan, Ekawit Nantajeewarawat, Vilas Wuwongse</i>	

Reasoning

OWL-Full Reasoning from an Object Oriented Perspective	263
<i>Seiji Koide, Hideaki Takeda</i>	

Visualizing Defeasible Logic Rules for the Semantic Web	278
<i>Efstratios Kontopoulos, Nick Bassiliades, Grigoris Antoniou</i>	

A Reasoning Algorithm for pD*	293
<i>Huiying Li, Yanbing Wang, Yuzhong Qu, Jeff Z. Pan</i>	

Triple Space Computing: Adding Semantics to Space-Based Computing	300
<i>Johannes Riemer, Francisco Martín-Recuerda, Ying Ding, Martin Murth, Brahmananda Sapkota, Reto Krummenacher, Omair Shafiq, Dieter Fensel, Eva Kühn</i>	

Application 1

Full-Automatic High-Level Concept Extraction from Images Using Ontologies and Semantic Inference Rules	307
<i>Kyung-Wook Park, Dong-Ho Lee</i>	
Dental Decision Making on Missing Tooth Represented in an Ontology and Rules	322
<i>Seon Gyu Park, Hong-Gee Kim</i>	
Ontology Driven Visualisation of Maps with SVG – Technical Aspects	329
<i>Frank Ipfelkofer, Bernhard Lorenz, Hans Jürgen Ohlbach</i>	
Applying CommonKADS and Semantic Web Technologies to Ontology-Based E-Government Knowledge Systems	336
<i>Dong Yang, Lixin Tong, Yan Ye, Hongwei Wu</i>	
A Semantics-Based Protocol for Business Process Transactions	343
<i>Dongwoo Kang, Sunjae Lee, Kwangsoo Kim, Jae Yeol Lee</i>	

Information Search

Fuzzy View-Based Semantic Search	351
<i>Markus Holi, Eero Hyvönen</i>	
A Semantic Search Conceptual Model and Application in Security Access Control	366
<i>Kunmei Wen, Zhengding Lu, Ruixuan Li, Xiaolin Sun, Zhigang Wang</i>	
Document Filtering for Domain Ontology Based on Concept Preferences	377
<i>Bo-Yeong Kang, Hong-Gee Kim</i>	

Database

Qualitative Spatial Relation Database for Semantic Web	387
<i>Sheng-sheng Wang, Da-you Liu</i>	
Automatic Creation and Simplified Querying of Semantic Web Content: An Approach Based on Information-Extraction Ontologies	400
<i>Yihong Ding, David W. Embley, Stephen W. Liddle</i>	

HStar - A Semantic Repository for Large Scale OWL Documents	415
<i>Yan Chen, Jianbo Ou, Yu Jiang, Xiaofeng Meng</i>	

Minerva: A Scalable OWL Ontology Storage and Inference System	429
<i>Jian Zhou, Li Ma, Qiaoling Liu, Lei Zhang, Yong Yu, Yue Pan</i>	

Semantic Web Services 1

Exploring the Flexible Workflow Technology to Automate Service Composition	444
<i>Shuiguang Deng, Ying Li, Haijiang Xia, Jian Wu, Zhaohui Wu</i>	

Mediation Enabled Semantic Web Services Usage	459
<i>Emilia Cimpian, Adrian Mocan, Michael Stollberg</i>	

Toward Automatic Discovery and Invocation of Information-Providing Web Services	474
<i>Wen-feng Zhao, Jun-liang Chen</i>	

Automatic Composition of Semantic Web Services - A Theorem Proof Approach	481
<i>Li Ye, Junliang Chen</i>	

Semantic Web Services 2

A Semantic Rewriting Approach to Automatic Information Providing Web Service Composition	488
<i>Shenghua Bao, Lei Zhang, Chenxi Lin, Yong Yu</i>	

Web Services Analysis: Making Use of Web Service Composition and Annotation	501
<i>Peep Küngas, Mihhail Matskin</i>	

WWW: WSMO, WSMML, and WSMX in a Nutshell	516
<i>Dumitru Roman, Jos de Bruijn, Adrian Mocan, Holger Lausen, John Domingue, Christoph Bussler, Dieter Fensel</i>	

Automatic Generation of Service Ontology from UML Diagrams for Semantic Web Services	523
<i>Jin Hyuk Yang, In Jeong Chung</i>	

A Composition Oriented and Graph-Based Service Search Method	530
<i>Xiaoqin Xie, Kaiyun Chen, Juanzi Li</i>	

Ontology and Tool

DODDLE-OWL: A Domain Ontology Construction Tool with OWL	537
<i>Takeshi Morita, Naoki Fukuta, Noriaki Izumi, Takahira Yamaguchi</i>	
Knowledge Elicitation Plug-In for Protégé: Card Sorting and Laddering	552
<i>Yimin Wang, York Sure, Robert Stevens, Alan Rector</i>	
Towards a Topical Ontology of Fraud	566
<i>Gang Zhao, Robert Meersman</i>	

Application 2

Product Data Interoperability Based on Layered Reference Ontology	573
<i>Wonchul Seo, Sunjae Lee, Kwangsoo Kim, Byung-In Kim, Jae Yeol Lee</i>	
Design of Semantically Interoperable Adverse Event Reporting Framework	588
<i>Senator Jeong, Hong-Gee Kim</i>	
Protein Data Sources Management Using Semantics	595
<i>Amandeep S. Sidhu, Tharam S. Dillon, Elizabeth Chang</i>	
Semantic Web Modeling for Virtual Organization: A Case Study in Logistics	602
<i>Liao Lejian, Zhu Liehuang</i>	
A PSO-Based Web Document Query Optimization Algorithm	609
<i>Ziqiang Wang, Xin Li, Dexian Zhang, Feng Wu</i>	

Ontology and Theory

Modular Ontologies - A Formal Investigation of Semantics and Expressivity	616
<i>Jie Bao, Doina Caragea, Vasant G. Honavar</i>	
A Pi-Calculus Based Ontology Change Management	632
<i>Meiling Wang, Lei Liu</i>	
A Comprehensive Study of Inappropriate Hierarchy in WordNet	639
<i>Yang Liu</i>	

Autonomous Ontology: Operations and Semantics <i>OR</i> Local Semantics with Semantic Binding on Foreign Entity	646
<i>Yuting Zhao, Luciano Serafini, Fausto Giunchiglia</i>	

Peer-to-Peer

SemreX: A Semantic Peer-to-Peer System for Literature Documents Retrieval	653
<i>Hai Jin, Hanhua Chen, Xiaomin Ning</i>	
Personal Information Modeling in Semantic Web	668
<i>Sabah S. Al-Fedaghi, Majed Y. Ahmad</i>	
A Semantic Reputation Mechanism in P2P Semantic Web	682
<i>Wei Wang, Guosun Zeng, Lulai Yuan</i>	
Client and Server Anonymity Preserving in P2P Networks	689
<i>Byungryong Kim</i>	

Industrial Track 1

A Map Ontology Driven Approach to Natural Language Traffic Information Processing and Services	696
<i>Hongwei Qi, Yuguang Liu, Hui Feng Liu, Xiaowei Liu, Yabo Wang, Toshikazu Fukushima, Yufei Zheng, Haitao Wang, Qiangze Feng, Han Lu, Shi Wang, Cungen Cao</i>	
A Knowledge- and Workflow-Based System for Supporting Order Fulfillment Process in the Build-to-Order Supply Chains	711
<i>Yan Ye, Dong Yang, Zhibin Jiang, Lixin Tong</i>	
A Distributed IR Model Based on Semantic Web	725
<i>Pei-guang Lin, Xiao-zhong Fan, Ru-zhi Xu, Hai-yan Kang</i>	
Experimental Study of Semantic Contents Mining on Intra-university Enterprise Contents Management System for Knowledge Sharing	732
<i>Keiko Shimazu, Isao Saito, Koichi Furukawa</i>	

Industrial Track 2

Semantic Autocompletion	739
<i>Eero Hyvönen, Eetu Mäkelä</i>	

Ubiquitous Metadata Scouter – Ontology Brings Blogs Outside	752
<i>Takahiro Kawamura, Shinichi Nagano, Masumi Inaba, Tetsuo Hasegawa, Akihiko Ohsuga</i>	
Networked Interactive Photo Annotation and Reminiscence Content Delivery	762
<i>Noriaki Kuwahara, Kiyoshi Yasuda, Shinji Abe, Kazuhiro Kuwabara</i>	
Task-Oriented Mobile Service Recommendation Enhanced by a Situational Reasoning Engine	768
<i>Takefumi Naganuma, Marko Luther, Matthias Wagner, Atsuki Tomioka, Kunihiro Fujii, Yusuke Fukazawa, Shoji Kurakake</i>	
Author Index	775