

Table of Contents

Ontology Engineering

Towards On-the-Fly Ontology Construction - Focusing on Ontology Quality Improvement	1
<i>N. Sugiura, Y. Shigeta, N. Fukuta, N. Izumi, and T. Yamaguchi</i>	
OntoEdit Empowering SWAP: a Case Study in Supporting DIstributed, Loosely-Controlled and evolvInG Engineering of oNTologies (DILIGENT)	16
<i>S. Pinto, S. Staab, Y. Sure, and C. Tempich</i>	
A Protégé Plug-In for Ontology Extraction from Text Based on Linguistic Analysis	31
<i>P. Buitelaar, D. Olejnik, and M. Sintek</i>	

Ontology Matching and Mapping

Formal Support for Representing and Automating Semantic Interoperability	45
<i>Y. Kalfoglou and M. Schorlemmer</i>	
S-Match: an Algorithm and an Implementation of Semantic Matching . . .	61
<i>F. Giunchiglia, P. Shvaiko, and M. Yatskevich</i>	
Ontology Mapping - An Integrated Approach	76
<i>M. Ehrig and Y. Sure</i>	

Ontology-Based Querying

Application of Ontology Techniques to View-Based Semantic Search and Browsing	92
<i>E. Hyvönen, S. Saarela, and K. Viljanen</i>	
Active Ontologies for Data Source Queries	107
<i>J. de Bruijn and H. Lausen</i>	

Ontology Merging and Population

Knowledge Discovery in an Agents Environment	121
<i>M. Patel and M. Duke</i>	
The HCONE Approach to Ontology Merging	137
<i>K. Kotis and G.A. Vouros</i>	

Question Answering Towards Automatic Augmentations of Ontology Instances	152
<i>S. Kim, P. Lewis, K. Martinez, and S. Goodall</i>	

Infrastructure

The SCAM Framework: Helping Semantic Web Applications to Store and Access Metadata	167
<i>M. Palmér, A. Naeve, and F. Paulsson</i>	
Publish/Subscribe for RDF-based P2P Networks	182
<i>P.-A. Chirita, S. Idreos, M. Koubarakis, and W. Nejdl</i>	
Streaming OWL DL	198
<i>J.J. Carroll</i>	

Semantic Web Services

Mathematics on the (Semantic) NET	213
<i>O. Caprotti, J.H. Davenport, M. Dewar, and J. Padget</i>	
Approaches to Semantic Web Services: an Overview and Comparisons ...	225
<i>L. Cabral, J. Domingue, E. Motta, T. Payne, and F. Hakimpour</i>	
OWL-S Semantics of Security Web Services: a Case Study	240
<i>G. Denker, S. Nguyen, and A. Ton</i>	

Service Discovery and Composition

Directory Services for Incremental Service Integration	254
<i>I. Constantinescu, W. Binder, and B. Faltings</i>	
A Framework for Automated Service Composition in Service-Oriented Architectures	269
<i>S. Majithia, D.W. Walker, and W.A. Gray</i>	
Reusing Petri Nets Through the Semantic Web	284
<i>D. Gašević and V. Devedžić</i>	

Data for the Semantic Web

Methods for Porting Resources to the Semantic Web	299
<i>B. Wielinga, J. Wilemaker, G. Schreiber, and M. van Assem</i>	
Learning to Harvest Information for the Semantic Web	312
<i>F. Ciravegna, S. Chapman, A. Dingli, and Y. Wilks</i>	
Reverse Engineering of Relational Databases to Ontologies	327
<i>I. Astrova</i>	

Knowledge Representation

No Registration Needed: How to Use Declarative Policies and Negotiation to Access Sensitive Resources on the Semantic Web	342
<i>R. Gavriloaie, W. Nejdl, D. Olmedilla, K.E. Seamons, and M. Winslett</i>	
Semantic Annotation Support in the Absence of Consensus	357
<i>B. Sereno, V. Uren, S. Buckingham Shum, and E. Motta</i>	
Uncertainty in Knowledge Provenance	372
<i>J. Huang and M.S. Fox</i>	

Applications

Collaborative Semantic Web Browsing with Magpie	388
<i>J. Domingue, M. Dzbor, and E. Motta</i>	
Toward a Framework for Semantic Organizational Information Portal	402
<i>E. Della Valle and M. Brioschi</i>	
CS AKTiveSpace: Building a Semantic Web Application	417
<i>H. Glaser, H. Alani, L. Carr, S. Chapman, F. Ciravegna, A. Dingli, N. Gibbins, S. Harris, M.C. Schraefel, and N. Shadbolt</i>	

Content Management

Cultural Heritage and the Semantic Web	433
<i>V.R. Benjamins, J. Contreras, M. Blázquez, J.M. Dodero, A. Garcia, E. Navas, F. Hernandez, and C. Wert</i>	
Neptuno: Semantic Web Technologies for a Digital Newspaper Archive . . .	445
<i>P. Castells, F. Perdrix, E. Pulido, M. Rico, R. Benjamins, J. Contreras, and J. Lorés</i>	

Information Management and Integration

MIKSI - A Semantic and Service Oriented Integration Platform	459
<i>A. Wahler, B. Schreder, A. Balaban, J.M. Gomez, and K. Niederacher</i>	
Semantic Web Technologies for Economic and Financial Information Management	473
<i>P. Castells, B. Foncillas, R. Lara, M. Rico, and J.L. Alonso</i>	

Author Index	489
------------------------	-----

The Semantic Web: Research and Applications

First European Semantic Web Symposium, ESWS 2004,

Heraklion, Crete, Greece, May 10-12, 2004,

Proceedings

Davies, J.F.; Bussler, C.; Studer, R. (Eds.)

2004, XV, 490 p., Softcover

ISBN: 978-3-540-21999-6