The 3rd International Semantic Web Conference

ISWC2004

FINAL PROGRAM

Organized by
The Japanese Society for Artificial Intelligence
&
The Semantic Web Science Association

7-11 NOVEMBER, 2004
HIROSHIMA PRINCE HOTEL, HIROSHIMA, JAPAN

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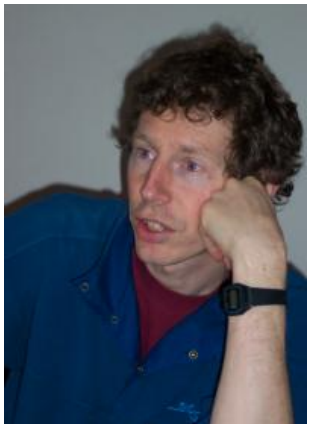
WELCOME MESSAGE



While the Semantic Web vision and research continues to attract attention at many different conferences, the International Semantic Web Conference has firmly established itself as the primary venue for top-level research in this area. It is therefore with great pride that I welcome you all to this Third International Semantic Web Conference in Hiroshima, Japan. This third conference completes the Semantic Web's circumnavigation of the globe, following the first conference in Europe (Sardinia) and the second conference in America (Florida).

Although primarily established to be the top scientific conference in the field, it is very encouraging to see that this conference is much richer then just the set of accepted papers. In addition to the main conference tracks (more details on this in the preface of the proceedings), there are very active and well attended events for software demonstrations and poster presentations. In fact, both events have drawn so much interest that they will be spread over two sessions during the conference, in order to give sufficient space to all participants. Furthermore, the second Semantic Web Challenge has attracted almost double the number of submissions from last year. Thus, ISWC2004 promises to be a very lively and active event.

A tell-tale sign of the high visibility of this conference is that, in a time when other major conferences have a hard time attracting sponsorship, ISWC2004 can take pride in a prestigious set of sponsors.

Finally, among the many people that have contributed to the success of this conference, I will select a few for my warmest thanks: the Program Chairs Sheila McIlraith and Dimitris Plexousakis, who are responsible for the entire scientific content of the conference; and the Local Chair, Riichiro Mizoguchi. We are very fortunate with this conference to be in the good hands of such an excellent Local Chair, presiding over such an excellent team.

I am greatly looking forward to sharing this event with you all, and I hope you will learn as much from participating in it as I have from helping to organise it.

Frank van Harmelen.
Conference Chair.

CONFERENCE OVERVIEW

Sunday 7th November

Registration	08.00-17.00
Tutorial: Morning Session	08.30-12.30
Workshop: Full day	09.00-18.00
Coffee Break (30 min.)	10.30-11.30
Lunch (90 min.)	12.00-14.00
Tutorial: Afternoon Session	14.00-18.00
Tea Break (30 min.)	15.00-16.00

Monday 8th November

Registration	08.30-17.00
Workshop: Full day	09.00-18.00
Coffee Break (30 min.)	10.30-11.30
Lunch (90 min.)	12.00-14.00
Tea Break (30 min.)	15.00-16.00

Tuesday 9th November

Registration	08.30-17.00
Opening Ceremony	09.00-09.30
Invited Talk	09.30-10.30
Coffee Break	10.30-11.00
Paper Session 1 & 2	11.00-12.30
Lunch	12.30-14.00
Paper Session 3 & 4	14.00-15.30
Tea Break	15.30-16.00
Paper Session 5 & 6	16.00-17.00
Posters & 1st half of Demos with Drinks & Snacks	17.00-18.30

Wednesday 10th November

Registration	09.00-17.00
Invited Talk	09.30-10.30
Exhibition	10.30-
Coffee Break	10.30-11.00
Paper Session 7 & 8	11.00-12.30
Lunch	12.30-14.00
Paper Session 9 & 10	14.00-15.30
Tea Break	15.30-16.00
Paper Session 11 & 12	16.00-17.00
2nd half of Demos & Poster viewing	17.00-18.30
Banquet	19.00-

Thursday 11th November

Registration	08.30-17.00
Invited Talk	09.00-10.00
Coffee Break	10.00-10.30
Paper Session 13, 14 &15	10.30-12.00
Challenge Award	12.00-12.30
Lunch	12.30-14.00
Paper Session 16, 17 & 18	14.00-15.30
Tea Break	15.30-16.00
Paper Session 19, 20 & 21	16.00-17.00
Closing Ceremony	17.00-17.15

Internet Access

- Terminals connecting with Internet in *Room 6* on Level 2.
- Wireless network in each room.

ORGANIZING COMMITTEE

Conference Chair

Frank van Harmelen	Vrije Universiteit Amsterdam, The Netherlands

Program Co-Chairs

Sheila McIlraith	University of Toronto, Canada
Dimitris Plexousakis	ICS FORTH and University of Crete, Greece

Local Arrangements Chair

Riichiro Mizoguchi	Osaka University, Japan

Industrial Track Co-Chairs

Dean Allemang	TopQuadrant Inc., USA
Jun-ichi Akahani	NTT Corporation, Japan

Poster Track Chair

Jeremy Carroll	Hewlett-Packard Labs, UK

Demos Chair

Stefan Decker	DERI, Ireland

Semantic Web Challenge Co-Chairs

Michel Klein	Vrije Universiteit Amsterdam, The Netherlands
Ubbo Visser	University of Bremen, Germany

Tutorial Co-Chairs

Vipul Kashyap	Partners HealthCare System Inc., USA
Takahira Yamaguchi	Keio University, Japan

Workshop Chair

Natasha Noy	Stanford University, USA

Exhibition Chair

Hiroshi Tsuda	Fujitsu Ltd., Japan

Metadata Chair

Steffen Staab	University of Karlsruhe, Germany

Publicity Chair

Akiko Inaba	Osaka University, Japan

Sponsorship Co-Chairs

Akira Maeda	Hitachi Ltd., Japan
Massimo Paolucci	Carnegie Mellon University, USA
York Sure	University of Karlsruhe, Germany

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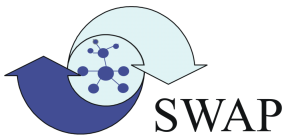
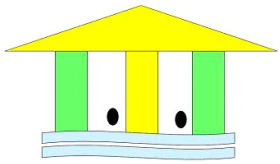


ADVANCED KNOWLEDGE
AKT
TECHNOLOGIES



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INVITED SPEAKERS

Edward Feigenbaum *(KSL, Stanford University, USA)*
Tuesday 9th 9.30-10.30

Edward Feigenbaum is Kumagai Professor of Computer Science Emeritus at Stanford University. He received his Ph.D. from Carnegie Mellon University in 1960, doing pioneering Artificial Intelligence research. In the 1960s, he (with Buchanan, Lederberg, and others) started and developed the Expert Systems field, and the techniques of knowledge-based systems and knowledge engineering. In the late 1960s, he was Director of the Stanford Computation Center. In the 1970s, he served as Chairman of the Stanford University Computer Science Department. In the 1980s, he co-founded the venture companies IntelliGenetics, IntelliCorp. Teknowledge, and Design Power, that commercialized expert systems technology. He was a member of the Board of Directors of Sperry Corporation. He served on many boards of venture companies, and has been a private venture investor. He also advised the Kansai Silicon Valley Forum in Japan. He has served on the Board of Trustees of the USA National Library of Medicine. He recently completed a term on the Board of Directors of the Charles Babbage Foundation for the History of Information Processing. He is President of the Feigenbaum Nii Foundation. In the 1990s, he served the US government as Chief Scientist of the Air Force. His books include Computers and Thought, Handbook of Artificial Intelligence (four volumes), The Fifth Generation, The Rise of the Expert Company and The Japanese Entrepreneur. He was elected to the USA National Academy of Engineering, and the American Academy of Arts and Sciences. He was elected the second President of the American Association for Artificial Intelligence. In 1995, he won the highest research honor of Computer Science, the Turing Award of the Association for Computing Machinery.

Wolfgang Nejdl *(University of Hannover, Germany)*
Wednesday 10th 9.30-10.30

Prof. Dr. Wolfgang Nejdl (born 1960) has been full professor of computer science at the University of Hannover since 1995. He received his M.Sc. (1984) and Ph.D. degree (1988) at the Technical University of Vienna, was assistant professor in Vienna from 1988 to 1992, and associate professor at the RWTH Aachen from 1992 to 1995. He worked as visiting researcher / professor at Xerox PARC, Stanford University, University of Illinois at Urbana-Champaign and EPFL Lausanne. Prof. Nejdl heads the Information Systems Institute / Knowledge Based Systems (www.kbs.uni-hannover.de) as well as the L3S Research Center (www.l3s.de), and does research in the areas of semantic web technologies, peer-to-peer information systems, adaptive hypermedia systems and artificial intelligence. In the L3S he coordinates the Network of Excellence PROLEARN, as part of the 6th EU research program on technology enhanced learning, and participates as core partner in the KnowledgeWeb and REWERSE Networks of Excellence focusing on Semantic Web Technologies. He has published more than 180 articles in journals, conferences and workshops in the areas of artificial intelligence, databases, WWW and the Semantic Web and is and has been programm committee and editorial board member of numerous international conferences and journals.

Marie-Christine Rousset *(LRI, France)*
Thursday 11th 9.00-10.00

Marie-Christine Rousset is a Professor at the University of Paris-Sud, and head of the Artificial Intelligence and Inference systems group of the LRI (Computer Science Laboratory). Jointly with Serge Abiteboul from INRIA, she has initiated and co-leads the Gemo group (Integration of Data and knowledge Distributed over the Web) within the Pole Commun de Recherche in Informatique (PCRI), a joint lab between INRIA, Ecole Polytechnique, Universite Paris-Sud and CNRS. Her research topics are knowledge representation and information integration for the semantic web, in particular: description logics, hybrid knowledge representation languages, query rewriting using views, automatic classification of semistructured data (e.g., XML documents), mediation systems for the semantic web. She has published over 60 refereed international journal articles and conference papers, and participated in several cooperative industry-university projects. She received a best paper award from AAAI in 1996. She has served in many program committees of international conferences and workshops and is a frequent reviewer of several journals. She has organized or chaired several workshops or conferences (DL 1997, RFIA 2000, KRDB 2002, ECAI 2004 tutorial chair).

PROGRAM FOR TUTORIALS AND WORKSHOPS

Sunday 7th

TUTORIALS

Morning session 8.30-12.30

T1: XQuery: the query language, its applications and its implementations [Room 8]
Daniela Florescu and Donald Kossman

T2: Ontology Design Patterns and Problems: Practical Ontology Engineering using Protege-OWL [Room 10]
Alan Rector, Guus Schreiber, Natalya F. Noy, Holger Knublauch, and Mark A. Musen

T3: Tools and Technologies for Semantic Web Services [Room 4]
Christoph Bussler, Katia Sycara, Sinuhe Arroyo, Liliana Cabral, John Domingue, Matthew Moran, Michael Stollberg, and Michael Zaremba

Afternoon session 14.00-18.00

T4: RDF and Topic Maps Interoperability in Practice [Room 8]
Steve Pepper and Lars Marius Garshol

T5: Theory and Practice of RDF Query Processing [Room 10]
Heiner Stuckenschmidt, Ad Aerts, Richard Vdovjak, Geert-Jan Houben, and Jeen Broekstra

T6: Semantic Web Rules with Ontologies, and their E-Business Applications [Room 4]
Benjamin Grosof and Mike Dean

WORKSHOPS

Full-day session 9.00-18.00

W1: Semantic Web technology for mobile and ubiquitous applications [Room 5]
Monique Calisti, Chiara Ghidini, Kaoru Hiramatsu, Terry Payne, and Valentina Tamma

W2: Trust, Security, and Reputation on the Semantic Web [Room 7]
Piero Bonatti, Jennifer Golbeck, Wolfgang Nejdl, and Marianne Winslett

Monday 8th

WORKSHOPS

Full-day session 9.00-18.00

W3: SW-EL'04: Applications of Semantic Web Technologies for E-Learning [Room 10]
Lora Aroyo, Darina Dicheva, Riichiro Mizoguchi, and Yukihiro Itoh

W4: Evaluation of Ontology-based Tools (EON2004) [Room 7]
York Sure, Oscar Corcho, Jérôme Euzenat, and Todd Hughes

W5: Rules and Rule Markup Languages for the Semantic Web [Room 5]
Grigoris Antoniou and Harold Boley

W6: Semantic Web Services: Preparing to Meet the World of Business Applications [Room 4]
David Martin, Takahira Yamaguchi, and Rubén Lara Hernández

W7: Meaning coordination and negotiation [Room 8]
Paolo Bouquet and Luciano Serafini

W8: Knowledge Markup and Semantic Annotation (Semannot2004) [Room 9]
Siegfried Handschuh and Thierry Declerck

Sunday 7th

	Room 4	Room 5	Room 7	Room 8	Room 9	Room 10
08.30-	T3			T1		T2
09.00-		W1	W2			
10.30-11.30	Coffee Break (30 min.)		[Top of Hiroshima, Level 23]			
12.00-14.00	Lunch (90 min.)		[Top of Hiroshima, Level 23]			
14.00-	T6			T4		T5
15.00-16.00	Tea Break (30 min.)		[Top of Hiroshima, Level 23]			
-18.00						

Monday 8th

	Room 4	Room 5	Room 7	Room 8	Room 9	Room 10
09.00-	W6	W5	W4	W7	W8	W3
10.30-11.30	Coffee Break (30 min.)		[Top of Hiroshima, Level 23]			
12.00-14.00	Lunch (90 min.)		[Top of Hiroshima, Level 23]			
14.00-						
15.00-16.00	Tea Break (30 min.)		[Top of Hiroshima, Level 23]			
-18.00						

PROGRAM OVERVIEW

Tuesday 9th

09.00 - 09.30	**Opening Ceremony** [Room 1]		
09.30 - 10.30	**Invited speaker: Edward Feigenbaum** [Room 1]		
10.30 - 11.00	Coffee Break [Room 4]		
11.00 - 12.30	1: Integration & Interoperability [Room 1]	2: Searching & Querying [Room 2]	
12.30 - 14.00	Lunch [Top of Hiroshima, Level 23]		
14.00 - 15.30	3: SW Services [Room 1]	4: User Interfaces & Visualization [Room 2]	
15.30 - 16.00	Tea Break [Room 4]		
16.00 - 17.00	5: SW Mining [Room 1]	6: Large Scale Knowledge Mgmt [Room 2]	
17.00 - 18.30	**Posters & 1st half of Demos with Drinks & Snacks** [Room 5 & 6]		

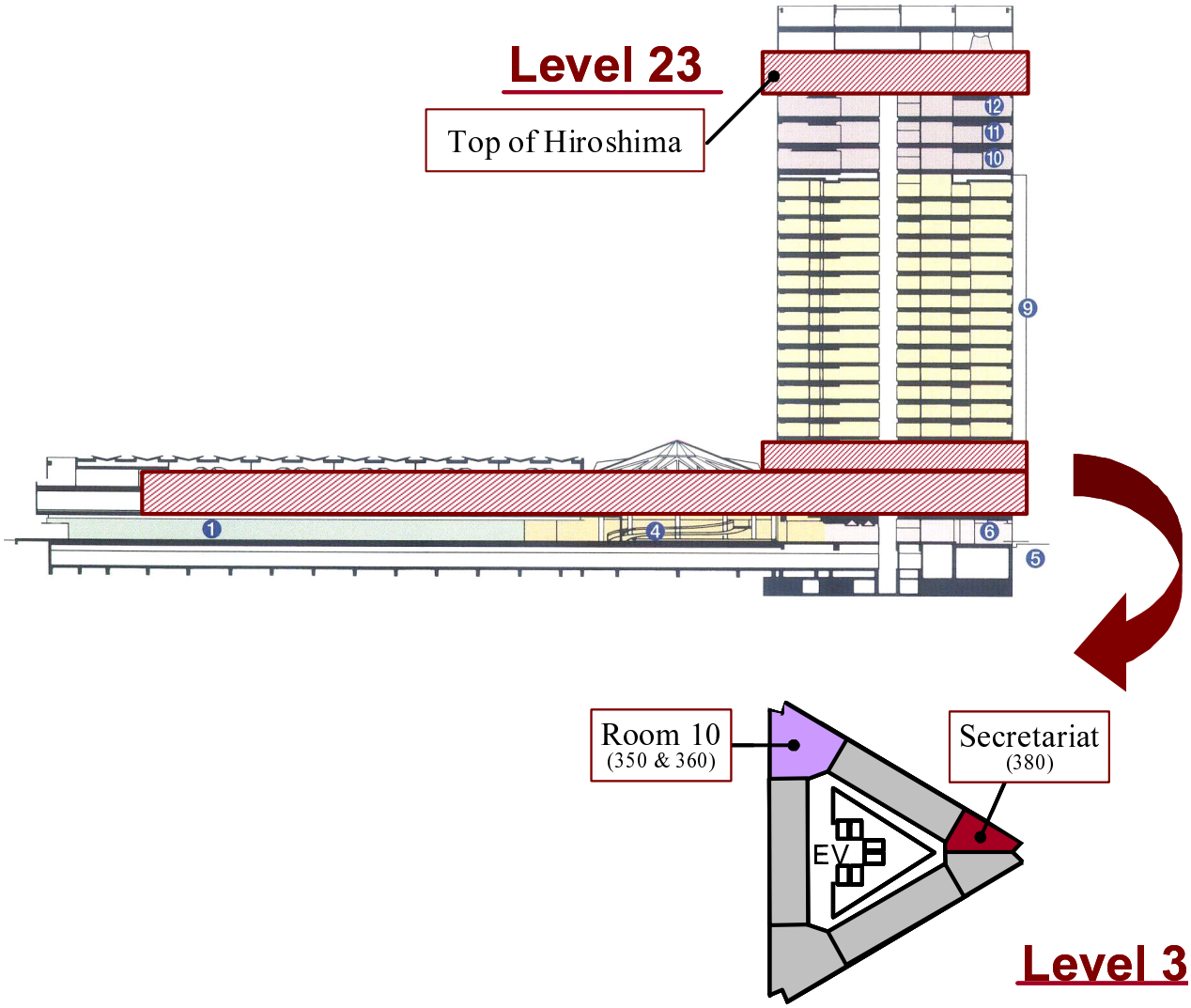
Wednesday 10th

09.30 - 10.30	**Invited speaker: Wolfgang Nejdl** [Room 1]		
10.30 - 11.00	Coffee Break [Room 5]		Exhibition [Room 5]
11.00 - 12.30	7: Ontologies [Room 1]	8: Inference [Room 2]	
12.30 - 14.00	Lunch [Top of Hiroshima, Level 23]		
14.00 - 15.30	9: Data Semantics [Room 1]	10: SW Services [Room 2]	
15.30 - 16.00	Tea Break [Room 5]		
16.00 - 17.00	11: Searching & Querying [Room 1]	12: SW Middleware [Room 2]	
17.00 - 18.30	**2nd half of Demos & Posters viewing** [Room 5 & 6]		
19.00 -	**Banquet** [Room 3 & 4]		

Thursday 11th

09.00 - 10.00	**Invited speaker: Marie-Christine Rousset** [Room 1]		
10.00 - 10.30	Coffee Break [Room 4]		
10.30 - 12.00	13: Ontologies [Room 1]	14: P2P Systems [Room 2]	15: Industrial 1 [Room 5]
12.00 - 12.30	**Semantic Web Challenge Award** [Room 1]		
12.30 - 14.00	Lunch [Top of Hiroshima, Level 23]		
14.00 - 15.30	16: Data Semantics [Room 1]	17: SW Services [Room 2]	18: Industrial 2 [Room 5]
15.30 - 16.00	Tea Break [Room 4]		
16.00 - 17.00	19: User Interfaces & Visualization [Room 1]	20: Middleware and Agents [Room 2]	21: Industrial 3 [Room 5]
17.00 - 17.15	**Closing Ceremony** [Room 1]		

ROOM ARRANGEMENT



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TECHNICAL PROGRAM

Tuesday 9th

Opening Ceremony	09.00-09.30		[Room 1]
Invited speaker: **Edward Feigenbaum** *The Semantic Web Story -- It's already 2004. Where are we?*	09.30-10.30	[chair: F. van Harmelen]	[Room 1]
Coffee Break	10.30-11.00		[Room 4]
Session 1: Integration & Interoperability, Tuesday 9th	11.00-12.30	[chair: M.-C. Rousset]	[Room 1]
An Extensible Directory Enabling Efficient Semantic Web Service Integration	Ion Constantinescu, Walter Binder, Boi Faltings		
Opening Up Magpie via Semantic Services	Martin Dzbor, Enrico Motta, John Domingue		
Working with Multiple Ontologies on the Semantic Web	Bernardo Cuenca Grau, Bijan Parsia, Evren Sirin		
Session 2: Searching & Querying, Tuesday 9th	11.00-12.30	[chair: R. Studer]	[Room 2]
A Comparison of RDF Query Languages	Peter Haase, Jeen Broekstra, Andreas Eberhart, Raphael Volz		
Generating On the Fly Queries for the Semantic Web: The ICS-FORTH Graphical RQL Interface (GRQL)	Nikos Athanasis, Vassilis Christophides, Dimitris Kotzinos		
Information Retrieval Support for Ontology Construction and Use	Willem van Hage, Maarten de Rijke, Maarten Marx		
Lunch	12.30-14.00		[Top of Hiroshima]
Session 3: SW Services, Tuesday 9th	14.00-15.30	[chair: K. Sycara]	[Room 1]
A Conceptual Architecture for Semantic Web Services	Chris Preist		
Applying KAoS Services to Ensure Policy Compliance for Semantic Web Services Workflow Composition and Enactment	Andrzej Uszok, Jeff M. Bradshaw, Renia Jeffers, Austin Tate, Jeff Dalton		
Applying Semantic Web Services to Bioinformatics: Experiences Gained, Lessons Learnt	Phillip Lord, Sean Bechhofer, Mark Wilkinson, Gary Schiltz, Damian Gessler, Duncan Hull, Carole Goble, Lincoln Stein		
Session 4: User Interfaces & Visual., Tuesday 9th	14.00-15.30	[chair: T. Ishida]	[Room 2]
OntoTrack: Combining Browsing and Editing with Reasoning and Explaining for OWL Lite Ontologies	Thorsten Liebig, Olaf Noppens		
The Protégé OWL Plugin: An Open Development Environment for Semantic Web Applications	Holger Knublauch, Ray Fergerson, Natalya F. Noy, Mark A. Musen		
Tracking Changes During Ontology Evolution	Natalya F. Noy, Sandhya Kunnatur, Michel Klein, Mark A. Musen		
Tea Break	15.30-16.00		[Room 4]
Session 5: SW Mining, Tuesday 9th	16.00-17.00	[chair: H. Takeda]	[Room 1]
From Tables to Frames	Aleksander Pivk, Philipp Cimiano, York Sure		
Learning Meta-Descriptions of the FOAF Network	Gunnar Astrand Grimnes, Pete Edwards, Alun Preece		
Session 6: Large Scale Knowledge Mgmt, Tuesday 9th	16.00-17.00	[chair: J. Euzenat]	[Room 2]
An Evaluation of Knowledge Base Systems for Large OWL Datasets	Yuanbo Guo, Zhengxiang Pan, Jeff Heflin		
Structure-Based Partitioning of Large Concept Hiererachies	Heiner Stuckenschmidt, Michel Klein		
Posters & 1st half of Demos with Drinks & Snacks	17.00-18.30		[Room 5 & 6]

Wednesday 10th

Invited speaker: **Wolfgang Nejdl** *How to Build Google2Google - An (Incomplete) Recipe --*	09.30-10.30	[chair: S. McIlraith]	[Room 1]
Coffee Break	10.30-11.00		[Room 5]
Exhibition, Wednesday 10th	10.30-		[Room 5]
Session 7: Ontologies, Wednesday 10th	11.00-12.30	[chair: G. Schreiber]	[Room 1]
QOM - Quick Ontology Mapping	Marc Ehrig, Steffen Staab		
Specifying Ontology Views by Traversal	Natalya F. Noy, Mark A. Musen		
Towards a Symptom Ontology for Semantic Web Applications	Kenneth Baclawski, Christopher Matheus, Mieczyslaw Kokar, Jerzy Letkowski, Paul Kogut		
Session 8: Inference, Wednesday 10th	11.00-12.30	[chair: E. Motta]	[Room 2]
Inferring Data Transformation Rules to Integrate Semantic Web Services	Bruce Spencer, Sandy Liu		
Knowledge-Intensive Induction of Terminologies from Metadata	Floriana Esposito, Nicola Fanizzi, Luigi Iannone, Ignazio Palmisano, Giovanni Semeraro		
Using Vampire to Reason with OWL	Dmitry Tsarkov, Alexandre Riazanov, Sean Bechhofer, Ian Horrocks		
Lunch	12.30-14.00		[Top of Hiroshima]
Session 9: Data Semantics, Wednesday 10th	14.00-15.30	[chair: N. Noy]	[Room 1]
A Method for Converting Thesauri to RDF/OWL	Mark van Assem, Maarten R. Menken, Guus Schreiber, Jan Wielemaker, Bob Wielinga		
Contexts for the Semantic Web	Ramanathan Guha, Rob McCool, Richard Fikes		
Bipartite Graphs as Intermediate Model for RDF	Jonathan Hayes, Claudio Gutierrez		
Session 10: SW Services, Wednesday 10th	14.00-15.30	[chair: B. Parsia]	[Room 2]
ASSAM: A Tool for Semi-Automatically Annotating Web Services	Andreas Heß, Eddie Johnston, Nicholas Kushmerick		
Automated Composition of Semantic Web Services into Executable Processes	Marco Pistore, Paolo Traverso		
Automating Scientific Experiments on the Semantic Grid	Shalil Majithia, David Walker, Alex Gray		
Tea Break	15.30-16.00		[Room 5]
Session 11: Searching & Querying, Wednesday 10th	16.00-17.00	[chair: A. Rector]	[Room 1]
Query Answering for OWL-DL with Rules	Boris Motik, Ulrike Sattler, Rudi Studer		
Rules-By-Example --- a Novel Approach to Semantic Indexing and Querying of Images	Suzanne Little, Jane Hunter		
Session 12: SW Middleware, Wednesday 10th	16.00-17.00	[chair: F. McCabe]	[Room 2]
A Semantic Web Resource Protocol: XPointer and HTTP	Kendall Clark, Bijan Parsia, Bryan Thompson		
Metadata-Driven Personal Knowledge Publishing	Ikki Ohmukai, Hideaki Takeda, Masahiro Hamasaki, Kosuke Numa, Shin Adachi		
2nd half of Demos & Posters viewing	17.00-18.30		[Room 5 & 6]
Banquet	19.00-		[Room 3 & 4]

Thursday 11th

Invited speaker: **Marie-Christine Rousset** *Small Can be Beautiful in the Semantic Web*	09.00-10.00	[chair: D. Plexousakis]	[Room 1]
Coffee Break	10.00-10.30		[Room 4]
Session 13: Ontologies, Thursday 11th	10.30-12.00	[chair: M. Musen]	[Room 1]
An API for Ontology Alignment	Jérôme Euzenat		
Automatic Generation of Ontology for Scholarly Semantic Web	Thanh Tho Quan, Siu Cheung Hui, A. C. M. Fong, Tru Hoang Cao		
Patching Syntax in OWL Ontologies	Sean Bechhofer, Raphael Volz		
Session 14: P2P Systems, Thursday 11th	10.30-12.00	[chair: S. Decker]	[Room 2]
Bibster --- A Semantics-Based Bibliographic Peer-to-Peer System	Peter Haase, Jeen Broekstra, Marc Ehrig, Maarten Menken, Peter Mika, Michal Plechawski, Pawel Pyszlak, Björn Schnizler, Ronny Siebes, Steffen Staab, Christoph Tempich		
GridVine: Building Internet-Scale Semantic Overlay Networks	Karl Aberer, Philippe Cudré-Mauroux, Manfred Hauswirth, Tim van Pelt		
Top-k Query Evaluation for Schema-Based Peer-to-Peer Networks	Wolfgang Nejdl, Wolf Siberski, Uwe Thaden, Wolf-Tilo Balke		
Session 15: Industrial 1, Thursday 11th	10.30-12.00	[chair: J. Akahani]	[Room 5]
Applying Semantic Web Technology to the Life Cycle Support of Complex Engineering Assets	David Price, Rob Bodington		
ORIENT: Integrate Ontology Engineering into Industry Tooling Environment	Lei Zhang, Yong Yu, Jing Lu, ChenXi Lin, KeWei Tu, MingChuan Guo, GuoTong Xie, Zhong Su, Yue Pan		
Semantic Web Challenge Award	12.00-12.30		[Room 1]
Lunch	12.30-14.00		[Top of Hiroshima]
Session 16: Data Semantics, Thursday 11th	14.00-15.30	[chair: I. Horrocks]	[Room 1]
A Model Theoretic Semantics for Ontology Versioning	Jeff Heflin, Zhengxiang Pan		
Extending the RDFS Entailment Lemma	Herman J. ter Horst		
Using Semantic Web Technologies for Representing e-Science Provenance	Jun Zhao, Chris Wroe, Carole Goble, Robert Stevens, Dennis Quan, Mark Greenwood		
Session 17: SW Services, Thursday 11th	14.00-15.30	[chair: D. Martin]	[Room 2]
From Software APIs to Web Service Ontologies: a Semi-Automatic Extraction Method	Marta Sabou		
Information Gathering During Planning for Web Service Composition	Ugur Kuter, Evren Sirin, Dana Nau, Bijan Parsia, James Hendler		
Semantic Web Service Interaction Protocols: An Ontological Approach	Ronald Ashri, Grit Denker, Darren Marvin, Mike Surridge, Terry Payne		
Session 18: Industrial 2, Thursday 11th	14.00-15.30	[chair: J. Caroll]	[Room 5]
OntoView - A Tool for Creating Semantic Web Portals	Eetu Mäkelä, Eero Hyvönen, Samppa Saarela, Kim Viljanen		
SemanticOrganizer: A Customizable Semantic Repository for Distributed NASA Project Teams	Richard Keller, Daniel Berrios, Robert Carvalho, David Hall, Stephen Rich, Ian Sturken, Keith Swanson, Shawn Wolfe		
Public Deployment of Semantic Service Matchmaker with UDDI Business Registry	Takahiro Kawamura, Jacques-Albert De Blasio, Tetsuo Hasegawa, Massimo Paolucci, Katia Sycara		

Tea Break	15.30-16.00	[Room 4]
Session 19: User Interfaces & Visual., Thursday 11th	16.00-17.00 [chair: G. Denker]	[Room 1]
Visual Modeling of OWL DL Ontologies Using UML	Sara Brockmans, Raphael Volz, Andreas Eberhart, Peter Löffler	
What Would It Mean to Blog on the Semantic Web?	David Karger, Dennis Quan	
Session 20: Middleware and Agents, Thursday 11th	16.00-17.00 [chair: J. Hefflin]	[Room 2]
The Specification of Agent Behavior by Ordinary People: A Case Study	Luke McDowell, Oren Etzioni, Alon Halevy	
On the Emergent Semantic Web and Overlooked Issues	Yannis Kalfoglou, Harith Alani, Marco Schorlemmer, Chris Walton	
Session 21: Industrial 3, Thursday 11th	16.00-17.00 [chair: D. Allemang]	[Room 5]
Querying Real World Services through the Semantic Web	Kaoru Hiramatsu, Jun-ichi Akahani, Tetsuji Satoh	
SWS for Financial Overdrawn Alerting	José Manuel López-Cobo, Silvestre Losada, Oscar Corcho, Richard Bejamins, Marcos Niño, Jesús Contreras	
Closing Ceremony	17.00-17.15	[Room 1]

POSTERS

Tuesday 9th **17.00-18.30** **[Room 5]**

[01] *Introducing the Gnowsis Semantic Desktop*
Leo Sauermann and Sven Schwarz

[02] *Integrated Visualization for Semantic Web*
Ing-Xiang Chen, Chun-Lin Fan, Pang-Hsiang Lo, Li-Chia Kuo and Cheng-Zen Yang

[03] *D2RQ – Treating Non-RDF Databases as Virtual RDF Graphs*
Christian Bizer and Andy Seaborne

[04] *Describing Data Sources Semantically for Facilitating Efficient Creation of OLAP Cubes*
Santtu Toivonen and Tapio Niemi and

[05] *Towards Semantic Web-Based Yellow Page Directory Services*
Mikko Laukkanen, Kim Viljanen, Mikko Apiola, Petri Lindgren, Eetu Mäkelä, Samppa Saarela and Eero Hyvönen

[06] *Building an Ontology for NEWS Applications*
Norberto Fernández-García and Luis Sánchez-Fernández

[07] *Educational Topic Maps*
Darina Dicheva and Christo Dichev

[08] *Description of an Instructional Ontology and its Application in Web Services for Education*
Carsten Ullrich

[09] *Mining for Content Re-Use and Exchange -- Solutions and Problems*
Agathe Merceron, Carlos Oliveira, Michel Scholl and Carsten Ullrich

[10] *Semantic Access to Graphical Web Ressources for Blind User*
Martin Lorenz and Mirko Horstmann

[11] *Construction of Condensed Thesaurus for Building Radiology Ontology*
Seung-Bin Han and Jinwook Choi

[12] *Semantic Web Applications based on Physical State Model of Products*
Noriyuki Matsuda, Michiyasu Hiramatsu, Hirokazu Taki, Satoshi Hori and Norihiro Abe

[13] *An Ontological Framework for Semantic Description of Devices*
Ayomi Bandara, Terry Payne, David Roure and Gary Clemo

[14] *Multi-step Media Adaptation with Semantic Web Services*
Peter Soetens, Matthias De Geyter and Stijn Decneut

[15] *How to Build An Adaptive Web Site: A Framework for User Adaptation*
Daisuke Kanjo, Yukiko Kawai and Katsumi Tanaka

[16] *A SW-based Framework for Disclosure of Organizational Knowledge to the Outside World*
Yohei Tanaka, Yusuke Hayashi, Masataka Takeuchi, Mitsuru Ikeda and Riichiro Mizoguchi

[17] *Egocentric Search based on RSS*
Kosuke Numa, Ikki Ohmukai, Masahiro Hamasaki and Hideaki Takeda

[18] *Balog : Location-based Information Aggregation System*
Hiroki Uematsu, Kosuke Numa, Tetsuro Tokunaga, Ikki Ohmukai and Hideaki Takeda

[19] *Detecting and Analyzing Blog Community*
Tomoya Taniguchi, Yutaka Matsuo, Koiti Hasida and Mitsuru Ishizuka

[20] *Context-Aware Support for Communities of Practice*
Luiz Olavo Bonino da Silva Santos, Renata Silva Souza Guizzardi, Gerd Wagner, Marten van Sinderen, Luís Ferreira Pires, José Gonçalves Pereira Filho and Dimitri Konstantas

[21] *Open Ontologies and Open Knowledge Bases for Modeling the Social Layer of the Semantic Web*
Matthias Nickles, Tina Froehner and Gerhard Weiss

[22] *Metadata Description for Analyzing Web Social Network in Academic Communities*
Takeru Miki, Saeko Nomura and Toru Ishida

[23] *Sneachta and the PUII-The Semantic Social Network Portal*
Marco Neumann, Ciaran MacDonaill, John Breslin, Ina O' Murchu, Stefan Decker and Eamonn McQuade

[24] *Towards a Semantic "Myportal"*
Haibo Yu, Tsunenori Mine and Makoto Amamiya

[25] *Advanced Design of Semantic Web Portal: ODESeW2*
Asuncion Gomez-Perez and Angel Lopez-Cima

[26] *Towards a Semantic Wiki Wiki Web*
Roberto Tazzoli, Paolo Castagna and Stefano Emilio Campanini

[27] *OASIS – A New Tool for the Transformation of XML Knowledge Resources into OWL*
Pavel Smrž, Martin Povolný and Anna Sinopalnikova

[28] *Round-tripping between XML and RDF*
Steve Battle

[29] *LixtoForAll: Consumer-level Semantic Web-Squeezing and Aggregation*
Wolfgang Slany

[30] *Keyword Extraction from the Web for Creation of Person Metadata*
Junichiro Mori, Yutaka Matsuo, Mitsuru Ishizuka and Boi Faltings

[31] *Building Phylogenetic Lexical Ontologies*
Enrique Alfonseca

[32] *Automatic Inference of Word Meaning using Phonosemantic Patterns*
Maria Ruiz-Casado, Enrique Alfonseca and Pablo Castells

[33] *Requirements for Ontology Indexed Knowledge Resources: Clarifying the relation of Universals, Prototypes, and Kinds of Metadata*
Alan Rector and Robert Stevens

[34] *Web Explanations for Semantic Heterogeneity Discovery*
Pavel Shvaiko, Fausto Giunchiglia, Paulo Pinheiro da Silva and Deborah L. McGuinness

[35] *Ontology-Driven Knowledge Integration from Heterogeneous Sources for Operational Decision Making Support*
Alexander Smirnov, Michael Pashkin, Nikolai Chilov, Tatiana Levashova and Andrew Krizhanovsky

[36] *DODDLE-OWL: On-the-fly Ontology Construction with Ontology Quality Management*
Takeshi Morita, Yoshihiro Shigeta, Naoki Sugiura, Naoki Fukuta, Noriaki Izumi and Takahira Yamaguchi

[37] *Ontology Language Extensions to Support Collaborative Ontology Building*
Jie Bao and Vasant Honavar

[38] *A Web Based Platform for Collaborative Ontology Management*
Sören Auer

[39] *Towards Ontologoical Context Mediation for Semantic Web Database Integration: Translating COIN Ontologies into OWL*
Sumit Bhansali, Benjamin Grosof and Stuart Madnick

[40] *WSIRD: Web Services Integration via Rules for Data Transformation*
Sandy Liu and Bruce Spencer

[41] *WSMX – An Architecture for Semantic Web Service Discovery, Mediation and Invocation*
Matthew Moran and Adrian Mocan

[42] *Semantic Web Fred*
Michael Stollberg, Reinhold Herzog and Peter Zugmann

[43] *Jacinta: A Mediator Agent for Human-Agent Interaction in Semantic Web Services*
Mariano Rico and Pablo Castells

[44] *The OWL-S Java API*
Evren Sirin and Bijan Parsia

[45] *Pellet: An OWL DL Reasoner*
Bijan Parsia and Evren Sirin

[46] *Hypermedia Inspired Ontology Engineering Environment: SWOOP*
Aditya Kalyanpur, Evren Sirin, Bijan Parsia and James Hendler

[47] *Enterprise Semantic Web Solutions*
Jeffrey T. Pollock

[48] *A Framework for Ontology-based Authoring Environments*
Edgard Costa Oliveira, Frank van Harmelen and Mamede Lima-Marques

SEMANTIC WEB CHALLENGE

Tuesday 9th 17.00-18.30 [Room 5 & 6]

Project name	URI	Name	Affiliation
DBin	http://dbin.org/	Giovanni Tummarello	Università Politecnica delle Marche (Ancona, Italy)
MusiDB	http://www.cs.vu.nl/~rstegers/iwa/	Heiner Stuckenschmidt	Vrije Universiteit Amsterdam
Semantic Organizer	http://sciencedesk.arc.nasa.gov/	Richard Keller	NASA/Ames Research Center
Platypus Wiki	http://platypuswiki.sourceforge.net/	Paolo Castagna	Free Software
MuseumFinland	http://www.cs.helsinki.fi/group/seco/museums/	Eero Hyvönen	University of Helsinki and HIIT
pOWL - Semantic Web Development Platform	http://powl.sourceforge.net/swc/	Sören Auer	University of Leipzig
Semantic Portal on International Affairs	http://elcano.isoco.net/	Jesus Contreras	Intelligent Software Components S.A. (iSOCO)
Flink	http://prauw.cs.vu.nl:8080/flink/	Peter Mika	Free University, Amsterdam
Bibster	http://bibster.semanticweb.org/	Peter Haase	AIFB, University of Karlsruhe
Annotea shared bookmark	http://www.annotea.org/mozilla/ubi.html	Marja-Riitta Koivunen	Annotea
GOHSE	http://www.cohse.man.ac.uk/gohse/	Sean Bechhofer	University of Manchester
Swoogle: A Metadata and Search Engine for the Semantic Web	http://swoogle.umbc.edu/	Li Ding	Department of Computer Science and Electrical Engineering, UMBC

DEMOS

Tuesday 9th 17.00-18.30 [Room 5 & 6]

[01] *Overcoming the Tyranny of the Majority in Social Information Filtering Systems*
Kazuhiro Kitagawa, Fumihiro Kato, and Nobuo Saito

[02] *RDF(S) Manipulation, Storage and Querying using Sesame*
Jeen Broekstra and Arjohn Kampman

[03] *Annotea shared bookmarks: Semantic Web at your fingertips*
Marja-Riitta Koivunen

[04] *PARIP Explorer - Researching the Researchers*
S Price, A A Piccini, S Agarwal, B Kershaw, B Joyner, and L Miller

[05] *Intelligent Product Information Search Framework Based on the Semantic Web*
Wooju Kim, Dae Woo Choi, and Sang-un Park

[06] *Environmental Health News Building an on-line news portal using Semantic Web technologies*
Cormac Twomey and Todd Koym

[07] *Learning path creation to achieve learner;s goal for Web Based Training using RDF*
Noritada Shimizu, Junichi Nakamura, Takashi Hattori, and Tatsuya Hagino

[08] *The Practical Application of Semantic Web Technologies for Situation Awareness*
Christopher J. Matheus, Mitch M. Kokar, Kenneth Baclawski, Jurek Letkowski and Catherine Call

[09] *Protégé OWL Plugin Demo*
Holger Knublauch, Natalya F. Noy, Mark A. Musen

[10] *Bringing Discussion to Documents for the Creation of Richer Metadata*
Michihiro Yamamoto and Ng S. T. Chong

[11] *OntoLT Version 1.0: Middleware for Ontology Extraction from Text*
Paul Buitelaar, Michael Sintek

[12] *Automatic Semantic Annotation with KIM*
Atanas Kiryakov, Borislav Popov, Dimitar Manov, Damyan Ognyanoff, Rosen Marinov and Ivan Terziev

[13] *Advanced search and browsing in digital libraries*
Sebastian R. Kruk

[14] *RDF and Topic Maps Interoperability in Practice*
Lars Marius Garshol

[15] *Xcerpt and visXcerpt: Twin Query Languages for the Semantic Web*
Sacha Berger, Francois Bry, Oliver Bolzer, Tim Furche, Sebastian Schaffert, and Christoph Wieser

[41] *OntoSelect: A Dynamic Ontology Library with Support for Ontology Selection*
Paul Buitelaar and Thomas Eigner

[42] *Gnowsis Semantic Desktop*
Leo Sauermann

Wednesday 10th 17.00-18.30 [Room 5 & 6]

[16] *Annotating the Legacy Web with Lixto*
Robert Baumgartner, Georg Gottlob, Marcus Herzog, and Wolfgang Slany

[17] *Competence Manager Applying the Semantic Web in Practice*
Mikko Laukkanen and Heikki Helin

[18] *OntoTrack A New Ontology Authoring Approach*
Thorsten Liebig and Olaf Noppens

[19] *DR-DEVICE: A Defeasible Logic RDF Rule Language*
Nick Bassiliades, Grigoris Antoniou, and Ioannis Vlahavas

[20] *MiXA: A Musical Annotation System*
Katsuhiko Kaji and Katashi Nagao

[21] *iVAS: Web-based Video Annotation System and its Applications*
Daisuke Yamamoto and Katashi Nagao

[22] *TopBraid, a Multi-user Environment for distributed authoring of Ontologies*
Dean Allemang and Irene Polikoff

[23] *ASSAM: A Tool for Semi-Automatically Annotating Semantic Web Services*
Andreas Heß and Nicholas Kushmerick

[24] *Artificial Memory*
Lars Ludwig

[25] *Using Photo Annotations to Produce a Reminiscence Video for Dementia Patients*
Noriaki Kuwahara, Kazuhiro Kuwabara, Nobuji Tetsutani, and Kiyoshi Yasuda

[26] *A User Oriented OWL Development Environment Designed to Implement Common Patterns & Minimise Common Errors*
Matthew Horridge, Alan Rector, Nick Drummond, Holger Knublauch, and Hai Wang

[27] *Magpie: Supporting Browsing and Navigation on the Semantic Web*
Martin Dzbor, John Domingue, and Enrico Motta

[28] *Plug-in for Protégé 2000 which supports Sesame*
Kalid Askar, Srinivas Vemuri, Yella Siril, and Mark Dougherty

[29] *Semantic Web Fred Agent Cooperation on the Semantic Web*
Michael Stollberg, Uwe Keller, Peter Zugmann, and Reinhold Herzog

[30] *INWISS Integrative Enterprise Knowledge Portal*
Torsten Priebe

[31] *OWL-S Editor*
Grit Denker, Daniel Elenius, and David Martin

[32] *Integration of KAoS Policy Services with Semantic Web Services*
Andrzej Uszok, Jeffrey M. Bradshaw, Gianluca Tonti, Renia Jeffers, and Lars E. Olson

[33] *CODE: A Development Environment for OWL-S Web services*
Naveen Srinivasan, Massimo Paolucci, and Katia Sycara

[34] *ODE SWS, A Semantic Web Service Development*
Asunción Gómez Pérez and Rafael González Cabero and Manuel Lama

[35] *WS-GEN: A Tool for the Automated Composition of Semantic Web Services*
M. Pistore, P. Bertoli, E. Cusenza, A. Marconi, and P. Traverso

[36] *HotBlu - A system for large scale service discovery and composition*
Ion Constantinescu, Boi Faltings, and Walter Binder

[37] *SWOOP: A Semantic Web Object-Oriented Programming Tool in Lisp*
Seiji Koide and Masanori Kawamura

[38] *WSMX – INFRASTRUCTURE for Execution of Semantic Web Services*
Michal Zaremba, Armin Haller, Maciej Zaremba, and Matthew Moran

[39] *SWS for financial overdraft alerts*
José Manuel López-Cobo, Silvestre Losada, Oscar Corcho, Richard Benjamins, Marcos Niño, and Jesús Contreras

[40] *IRS-III: A Platform and Infrastructure for Creating WSMO-based Semantic Web Services*
John Domingue, Liliana Cabral, Farshad Hakimpour, Denilson Sell, and Enrico Motta

MEMO