OntoWeb workshop:


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## Revision information

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Introduction

Workshop name: 2nd international Semantic Web Conference
Acronym: ISWC
Location: Sanibel Island, Florida, USA
Time: 20-23rd October, 2003

The second International Semantic Web Conference (ISWC) held in Sanibel Island, Florida, Italy, 20-23 October, 2003 followed the 1st issue in Sardinia, Italy last year (see deliverable 7.9) and the Semantic Web Working Symposium held at Stanford University, USA in 2001 (see deliverable 7.6). The conference followed a two day Ontoweb meeting and preceded the 2nd K-Cap conference.

The ambition of ISWC is to be the scientific conference of reference on the Semantic web. The technical program of ISWC presented the state of the art in the development of the principles and technology that will allow for the Semantic Web to become a reality. There were three invited talks, one by James Hendler (University of Maryland) on “On Beyond Ontology: Returning to AI from the Semantic Web”, one by Mike Brodie (Verizon) “The Long and Winding Road To Industrial Strength Semantic Web Services” and the last one by Tim Berners-Lee (W3C) on “Semantic Web: Where to direct our energy?”. Each of them was approaching the future work that faces us in a particular way. ISWC-2003 also featured a multimedia dinner talk by Dieter Fensel linking the semantic web, philosophy and the Matrix series of movies.

283 papers were submitted to ISWC, comprising 262 research papers, and 21 industrial papers. Most of these submissions were evaluated by at least three referees of the program committee coordinated by the members of the Senior programme committee. This resulted in the selection of 58 papers for presentation at the conference and publication in Springer’s “Lecture notes in computer science” series (n° 2870). Of these, 49 are research papers, and 9 are system description papers. As a result, the proceedings are now 931 pages long and the presentations have been divided in three parallel tracks.

This year ISWC has developed a very successful workshop programme with workops on Practical and scalable semantic systems, Semantic integration, Semantic web technologies, Human language technologies for the semantic web and web services, Rules and rule-markup languages for the semantic web and Evaluation of ontology-based tools. One of them were attended by more than 80 people. We also continued the success of tutorials: OWL, Agent mediated web/grid services, Information integration on the world-wide web, Creating ontologies and semantic web applications with Protégé. Additionally, the poster session gathered 38 contributions and 11 systems were demonstrated on site.

As a special event, this year the results of the first Semantic web challenge were delivered. Among 10 submission of high quality and evaluated online, the jury distinguished the CS AKTive Space proposed by the European project AKT (University of Southampton). The prizes for the challenges were provided by Springer Verlag and Ontoweb.

ISWC 2003 gathered 427 participants from all over the world (more about demographics in a separate section). This is a confirmation of the growth of the field and the success of the conference itself.

ISWC was patronized by the IST OntoWeb network and DARPA-DAML. Many other sponsors have supported the event: Network inference, DERI, Springer Verlag, SWWS, OntoText, Elsevier, Exeura, France Telecom, Esperonto, Nokia, Enigmatec, Semagix, SWAP, Mondeca and AKT.

The success of the ISWC series of conference went beyond the charter of WP5 to organize a yearly workshop fostering worldwide collaboration. The WP5 partners have used resources for providing support on the financial and organizational side.

The effort devoted last year to the markup of the conference pages has been pursued and improved. Again, all the papers presented to the conference and the programme of the conference has been provided in structured and semantic formats. Moreover, both sides are now linked: it is possible to navigate from the
programme to metadata. The marked up abstracts are permanently archived at the conference web site:

http://iswc2003.semanticweb.org

Many people and institutions have made ISWC possible. In particular, the general chair Dieter Fensel (and his team: Manuela, Sylvia, Mario and Gerold) supported by university of Innsbruck and DERI, the local chair Jeff Bradshaw (and his colleague Alan) supported by the IHMC/university of West Florida and the sponsors themselves for their moral and financial support. The full organization committee and other committees are presented hereafter.

Like last year, we did our best to produce this report by using available web resources reformatted.

During the workshop the steering committee (i.e., the Semantic Web Science Association) held its meeting and confirmed the next edition in Japan (Hiroshima, November 8-11, 2004) and the 2005 edition in Galway, Ireland who won a bid over four other European proposals.
Demographics

This year, we do not provide the extensive list of the 427 participant to the conference. We provide some analysis of the demographics of the conference from the yet unconsolidated but relatively accurate data of November 2003.

![Figure 1: Evolution of the ISWC conference serie in attendance, submitted and accepted papers.](image)

First the conference is progressing in number of participants and number of submitted papers as shown by Figure 1. Last year conference was in a remote place of Europe, but even compared with a meeting in Stanford the week before IJCAI at Seattle, the evolution is dramatic. This is especially true for the number of papers. It is now up to the Japanese conference to confirm the definitive attractiveness of ISWC.

Moreover the correlated evolution of the selection rate is impressive as well. ISWC is a *very* selective conference.

<table>
<thead>
<tr>
<th>People/Papers</th>
<th>Attendance</th>
<th>Submissions</th>
<th>Acceptance</th>
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<td>450</td>
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<td>30</td>
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</table>

**Table 1: Geographic distribution of ISWC attendance (per country, unknown withdrawn)**
Concerning this year’s attendance, we provide the distribution of registered participants (this does include more than the 427 registered participants: some of them did not come). As expected, for a conference in the USA, North America is over-represented in the geographic distribution (Figure 2). Europe is the second as expected as well. However, the good news for internationalization of the semantic web is that Asia was well represented with 10% of the participants (i.e., 47 people) coming from Japan, Korea, China, and Thailand. This is good news for next year’s conference.

![Geographic distribution]

Figure 2: Geographic distribution of ISWC attendance (per continent).

The repartition of the attendance per institution is relatively stable with 20% of students and the remainder being half academia-half industry. This shows the relatively high level of interest from industry in the semantic web.

<table>
<thead>
<tr>
<th>People</th>
<th>Percentage</th>
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<tr>
<td>Regular</td>
<td>154</td>
</tr>
<tr>
<td>Academic</td>
<td>156</td>
</tr>
<tr>
<td>Students</td>
<td>85</td>
</tr>
<tr>
<td>Free</td>
<td>31</td>
</tr>
<tr>
<td>Total</td>
<td>426</td>
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</table>

Table 2: Institutional distribution of ISWC attendance (per category)
Agenda

20/10/2003

09:15-12:00
Tutorial: OWL

09:15-18:00
Tutorial: Agent-mediated web/grid services
Tutorial: Information Integration on the World Wide Web
Workshop: Practical and Scalable Semantic Systems
Workshop: Semantic integration
Workshop: Semantic web technologies
Workshop: Human Language Technology for the Semantic Web and Web Services
Workshop: Rules and Rule Mark Up Languages for the Semantic Web
Workshop: Evaluation of Ontology-based Tools

14:00-18:00
Tutorial: Creating Ontologies and Semantic Web Applications with Protégé

19:00-21:00
[Pool deck] Reception

21/10/2003

9:15-10:45
[Sanibel] Technical session: Multi-Media (Chair: Guus Schreiber)
Oge Marques, Nitish Barman
Integrating Structure and Semantics into Audio-visual Documents
Raphaël Troncy
SCULPTEUR: Towards a new paradigm for multimedia museum information handling
Matthew Addis, Mike Boniface, Simon Goodall, Paul Grimwood, Sanghee Kim, Paul Lewis, Kirk Martinez, Alison Stevenson

[Sundial] Technical session: Foundations (Chair: Nicola Guarino)
Semantic coordination: a new approach and an application
Paolo Bouquet, Luciano Serafini, Stefano Zanobini
Reducing OWL Entailment to Description Logic Satisfiability
Ian Horrocks, Peter Patel-Schneider
RDFS(FA) and RDF MT: Two Semantics for RDFS
Jeff Pan, Ian Horrocks

[Captiva] Technical session: Industrial track (Chair: Brian McBride)
Commercial semantic applications for today's enterprise: Guideline- and policy-driven decision support
systems

Jack Berkowitz, Howard Goldberg
ODESeW. Automatic Generation of Knowledge Portals for Intranets and Extranets
Oscar Corcho, Asunción Gómez-Pérez, Angel López-Cima, Mariá del Carmen Suárez-Figueroa
Making Business sense of the Semantic Web
Alberto Reggiori, Zavisa Bjelogrlic, Dirk-Willem van Gulik

11:15-12:45

[Sanibel] Technical session: Applications and Multi-Media (Chair: Tim Finin)

Towards Ontology-driven Discourse
Joost Geurts, Stefano Bocconi, Jacco van Ossenbruggen, Lynda Hardman
FrameNet meets the Semantic Web
Srini Narayanan, Collin Baker, Charles Fillmore, Miriam Petruck
A Q-Based Architecture For Semantic Information Interoperability On Semantic Web
Zhen-Jie Wang, Huan-ye Sheng, Peng Ding

[Sundial] Technical session: Foundations (Chair: Peter F. Patel-Schneider)

Web Ontology Reasoning with Datatype Groups
Jeff Pan, Ian Horrocks
Merging Topics in Well-formed XML Topic Maps
Richard Widhalm, Thomas Mueck
Semantic Processing of the Semantic Web
Kunal Patel, Gopal Gupta

[Captiva] Technical session: Industrial track (Chair: Massimo Paolucci)

KIM - Semantic Annotation Platform
Borislav Popov, Atanas (Kiryakov), Angel Kirilov, Dimitar Manov, Damyan Ognyanoff, Miroslav Goranov
Ontology-Oriented Programming: Static Typing for the Inconsistent Programmer
Neil Goldman
A Semantic Infosphere
Michael Uschold, Peter Clark, Fred Dickey, Casey Fung, Sonia Smith, Stephen Uczekaj, Michael Wilke, Sean Bechhofer, Ian Horrocks

14:30-15:30

[Sundial] Invited talk: On Beyond Ontology: Returning to AI from the Semantic Web (Chair: Katia Sycara)
Jim Hendler (Universtiy of Maryland)

16:00-18:00

[Sanibel] Technical session: Information Retrieval (Chair: Natasha Noy)

Semantic Annotation, Indexing, and Retrieval
Atanas Kiryakov, Borislav Popov, Damyan Ognyanoff, Dimitar Manov, Angel Kirilov, Miroslav Goranovet
An Approach for the Ranking of Query Results in the Semantic Web
Nenad Stojanovic, Ljiljana Stojanovic, Rudi Studer
Querying Semantic Web Resources Using TRIPLE Views  
Zoltan Miklos, Gustaf Neumann, Michael Sintek, Uwe Zdunet

Automatic Annotation of Content-Rich HTML Documents: Structural and Semantic Analysis  
Saikat Mukherjee, I.V. Ramakrishnan, Guizhen Yanget


The DAML-S Virtual Machine  
Massimo Paolucci, Anupriya Ankolekar, Naveen Srinivasan, Katia Sycara
Semantic Web Challenge Awarding Event  
Michel Klein, Ubbo Visser
A Policy Based Approach to Security for the Semantic Web  
Lalana Kagal, Tim Finin, Anupam Joshi
Prolog-based Infrastructure for RDF: Scalability and Performance  
Jan Wielemaker, Guus Schreiber, Bob Wielinga

[Captiva] Technical session: Industrial track (Chair: Michael Uschold)

Task Computing - The Semantic Web Meets Pervasive Computing  
Ryusuke Matsuoka, Bijan Parsia, Yannis Labrou
Ontology-based Information Integration in the Automotive Industry  
Andreas Maier, Hans-Peter Schnurr, York Sure
Ontology-Based Query and Answering in Chemistry: OntoNova@Project Halo  
Juergen Angele, Eddie Moench, Henrik Oppermann, Steffen Staab, D. Wenke
ScadaOnWeb - Web based supervisory control and data acquisition  
Thomas Dreyer, David Leal, Andrea Schroeder, Michael Schwan

19:30-21:30

[Sundial] Poster session: Posters and demos

Ontology Translation: Available Today — Dejing Dou, Drew McDermott, Peishen Qi  
Semantic Annotation and Matchmaking of Web Services — Joachim Peer
Mining and Annotating Social Relationship — Yutaka Matsuo, Hironori Tomobe, Koiti Hasida, Mitsuru Ishizuka
Cerebra Server and Construct: Usable Semantics for Domain Experts — Gary Ng, Matthew Quinlan
TRELLIS: Supporting Decision Making via Argumentation in the Semantic Web — Varun Ratnakar, Gil Yolanda, Timothy Chklovski, John Lee
Semantic Web Technologies for Economic and Financial Information Management — Pablo Castells, Juan Luis Alonso, Cesar Carranza, Borja Foncillas, Ruben Lara, Mariano Rico
The Semantic Object Web — Brian Kettler, James Starz, Terry Padgett, Gary Edwards
Semantic Phone: A Semantic Web Application for Semantically Augmented Communication — Akira Sugiyama, Jun-ichi Akahani, Tetsuji Satoh
DAML Reality Check: A Case Study of KAoS Domain and Policy Services — Matthew Johnson, Andrzej Uszok
Using RDF and Deductive Databases for Knowledge Sharing in Healthcare — Fabiane Nardon, Lincoln Moura, Beatriz Leao
Implementing DISCourse-driven hypermedia Presentations — Stefano Bocconi, Joost Geurts, Jacco van Ossenbruggen
A Proposal for Organizing Knowledge from Web Information Systems — Miguel-Angel Lopez-Alonso, Maria Pinto
I-X: Task Support on the Semantic Web — Stephen Potter, Austin Tate, Jeff Dalton
Incremental Formalization of Document Annotations — Gil Yolanda, Jim Blythe
Understanding the Semantic Web through Descriptions and Situations — Peter Mika, Aldo Gangemi
Capabilities: describing what services do — Phillipa Oaks, Arthur ter Hofstede, David Edmond
SEMAGEN: A Semantic Markup Generation Framework — James Starz
Computational Ontologies and XML Schemas for the Web — Pradnya Dharia, Anvith Baddam, Raphael Malyankar
Ontology based chaining of distributed Geographic Information Systems — Rob Lemmens
Static Knowledge Provenience — Mark Fox, Jingwei Huang
Towards Interactive Composition of Semantic Web Services — Gil Yolanda, Jihie Kim
Tracking Complex Changes During Ontology Evolution — Natasha Noy, Michel Klein
Integrating Directories and Service Composition — Ion Constantinescu, Boi Faltings
DL-workbench: a meta-model based platform for ontology manipulation — Mikhail Kazakov, Habib Abdulrab
Grounding Semantic Markup in Text: An Interactive Approach — Varun Ratnakar, Gil Yolanda
Improving Trust and Privacy in the Semantic Web through Identity Management — Wolfgang Woerndl, Michael Galla
Semantic Tuple Spaces: A Coordination Infrastructure in Mobile Environments — Khushraj Deepali, Tim Finin, Anupam Joshi
Semantic annotation and search at the document substructure level — Dario Bonino, Fulvio Corno, Laura Farinetti
Systematization of Nanotechnology Knowledge Through Ontology Engineering — Kouji Kozaki, Yoshinobu Kitamura, Riechiho Mizoguchi
Towards a Semantic Enterprise Information Portal — Emanuele Della Valle, Paolo Castagna, Maurizio Brioschi
Semantic Email — Luke McDowell, Oren Etzioni, Alon Halevy, Henry Levy
Semantic groupware and its application to KnowWho using RDF — Nobuyuki Igata, Hiroshi Tsuda, Yoshinori Katayama, Fumihiro Kozakura
Semantic Web Search Engines: the SEWASIE approach — Domenico Beneventano, Sonia Bergamaschi, Daniele Montanari, Laura Ottaviani
A Visual Concept Ontology for Automatic Image — Nicolas Maillot, Nicolas Maillot, Monique Thonnat, Alain Boucher
Data Migration for Ontology Evolution — Lei Zhang, Zhuo Zhang, Chenxi Lin, Yan Zhao, Yong Yu
Personal Agents on the Semantic Web — Tim Finin, Anupam Joshi, Anugeetha Kunjithapatham, Mithun Sheshagiri, Yun Peng
MIKSI: A semantic and service oriented integration platform for cultural institutions — Aleksandar Balaban, Aleksandar Balaban, Alexander Wahler, Bernhard Schreder, Rene Androsch, Klaus Niederacher

22/10/2003

9:15-10:45

[Sanibel/Captiva] Technical session: Ontological Reasoning (Chair: Ian Horrocks)

C-OWL: Contextualizing Ontologies
  Paolo Bouquet, Fausto Giunchiglia, Frank van Harmelen, Luciano Serafini, Heiner Stuckenschmidt
Web ontology language requirements w.r.t expressiveness of taxonomy and axioms in medicine
  Christine Golbreich, Olivier Dameron, Bernard Gibaud, Anita Burgun
Interoperability Among XML Data
  Laks V.S. Lakshmanan, Fereidoon Sadri

[Sundial] Technical session: Applications (Chair: Vipul Kashyap)
WebScripter: Grass-roots Ontology Alignment via End-User Report Authoring  
Baoshi Yan, Martin Frank, Pedro Szekely, Robert Neches, Juan Lopez

Magpie - towards a semantic web browser  
Martin Dzbor, John Domingue, Enrico Motta

Ontology-based Resource Matching  
Hongsuda Tangmunarunkit, Stefan Decker, Carl Kesselman

11:15-12:45

[Sanibel/Captiva] Technical session: Foundations (Chair: Bijan Parsia)

Infrastructure for Web Explanations  
Deborah McGuinness, Paulo Pinheiro da Silva

Representing the UMLS? Semantic Network using OWL (Or "What's in a Semantic Web Link?")  
Vipul Kashyap, Alex Borgida

Viewing the Semantic Web Through RVL Lenses  
Aimilia Magkanaraki, Val Tannen, Vassilis Christophides, Dimitris Plexousakis

[Sundial] Technical session: Semantic Web Services (Chair: Enrico Motta)

Surfing the Service Web  
Sudhir Agarwal, Siegfried Handschuh, Steffen Staab

Adapting BPEL4WS for the Semantic Web: The Bottom-Up Approach to Web Service Interoperation  
Daniel Mandell, Sheila McIlraith

Request Rewriting-based Web Service Discovery  
Boualem Benatallah, Mohand-Said Hacid, Christophe Rey, Farouk Toumani

14:30-15:30

[Sundial] Invited talk: The Long and Winding Road To Industrial Strength Semantic Web Services  
(Chair: John Mylopoulos)  
Michael Brodie (Verizon)

16:00-18:00

[Sundial] Technical session: Agents and the Semantic Web (Chair: Mike Dean)

An Environment for Distributed Ontology Development Based on Dependency Management  
Eiichi Sunagawa, Kouji Kozaki, Yoshinobu Kitamura, Riichiro Mizoguchi

Beyond Ontology Construction - Ontology Services as Online Knowledge Sharing Communities  
Yang Li, Simon Thompson, Zhu Tan, Nick Giles, Hamid Gharib

Semantic Web Languages for Policy Representation and Reasoning: A Comparison of KaoS, Rei, and Ponder  
Gianluca Tonti, Jeffrey Bradshaw, Renia Jeffers, Rebecca Montanari, Niranjan Suri , Andrzej Uszok

An Agent Framework for Inter-personal Information Sharing with an RDF-based Repository  
Koji Kamei, Sen Yoshida, Kazuhiro Kuwabara, Jun-ichi Akahani, Tetsuji Satoh

16:00-18:00

[Sundial] Technical session: Semantic web Services (Chair: Terry Payne)

Learning to Attach Semantic Metadata to Web Services  
Andreas Hess, Nicholas Kushmerick
Automating DAML-S Web Services Composition Using SHOP 2
Dan Wu, Bijan Parsia, Evren Sirin, James Hendler, Dana Nau

Semantic Markup for Semantic Web Tools: A DAML-S Description of an RDF-Store
Debbie Richards, Marta Sabou

IRS-II: A Framework and Infrastructure for Semantic Web Services
Enrico Motta, John Domingue, Liliana Cabral, Mauro Gaspari

18:30-22:00

[Pool deck] Dinner

23/10/2003

9:15-10:45
[Sanibel/Captiva] Technical session: Security and Semantic Web Services (Chair: Ling Liu)

Towards a Knowledge-based Approach to Semantic Service Composition
Liming Chen, Nigel Shadbolt, Carole Goble, Feng Tao, Simon Cox, Colin Puleston, P.R. Smart

Security for DAML Web Services: Annotation and Matchmaking
Grit Denker, Lalana Kagal, Tim Finin, Massimo Paolucci, Katia Sycara

Trust Management for the Semantic Web
Matthew Richardson, Rakesh Agrawal, Pedro Domingos

[ Sundial] Technical session: Applications and Tools (Chair: Atanas Kiryakov)

Haystack: A Platform for Authoring End User Semantic Web Applications
Dennis Quan, David Huynh, David Karger

Mangrove: Enticing Ordinary People onto the Semantic Web via Instant Gratification

DAMLJessKB: A Tool for Reasoning with the Semantic Web
Joseph Kopena, William Regli

11:15-12:45

[ Sanibel/Captiva] Technical session: Security, Trust and Privacy (Chair: Grit Denker)

Signing RDF Graphs
Jeremy Carroll

A Semantic e-Wallet to Reconcile Privacy and Context Awareness
Fabien Gandon, Norman Sadeh

[Sundial] Technical session: Tools and Methodologies (Chair: Harold Boley)

Benchmarking DAML+OIL Repositories
Yuanbo Guo, Jeff Heflin, Zhengxiang Pan

Cooking the Semantic Web with the OWL API
Sean Bechhofer, Raphael Volz, Phillip Lord

14:30-15:30

[Sundial] Invited talk: Semantic Web: Where to direct our energy? (Chair: Dieter Fensel)
Tim Berners-Lee (W3C)
16:00-17:30
Panel: Panel Discussion on Knowledge Acquisition Projects in conjunction with K-CAP 2003
### Organisation

**General chair:** Dieter Fensel  
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*University of Toronto*

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*University of West Florida*

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