OntoWeb workshop:

2nd International Semantic Web Conference (ISWC 2003)

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Revision date	Version	Changes
12-12-2003	Initial (0.9)	Included all the data
16-12-2003	Final (1.0)	First version ready
17-12-2003	Final (1.1)	Detail corrected

Contents

Introduction

Workshop name: 2nd international Semantic Web Conference
Acronym: ISWC
Location: Sanibel Island, Florida, USA
Time: 20-23th 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 developped a very successul workshop programme with workops on Practical and scalable semantic systems, Semantic integration, Semantic web technologies, Human language technolohies 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 demographis 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:
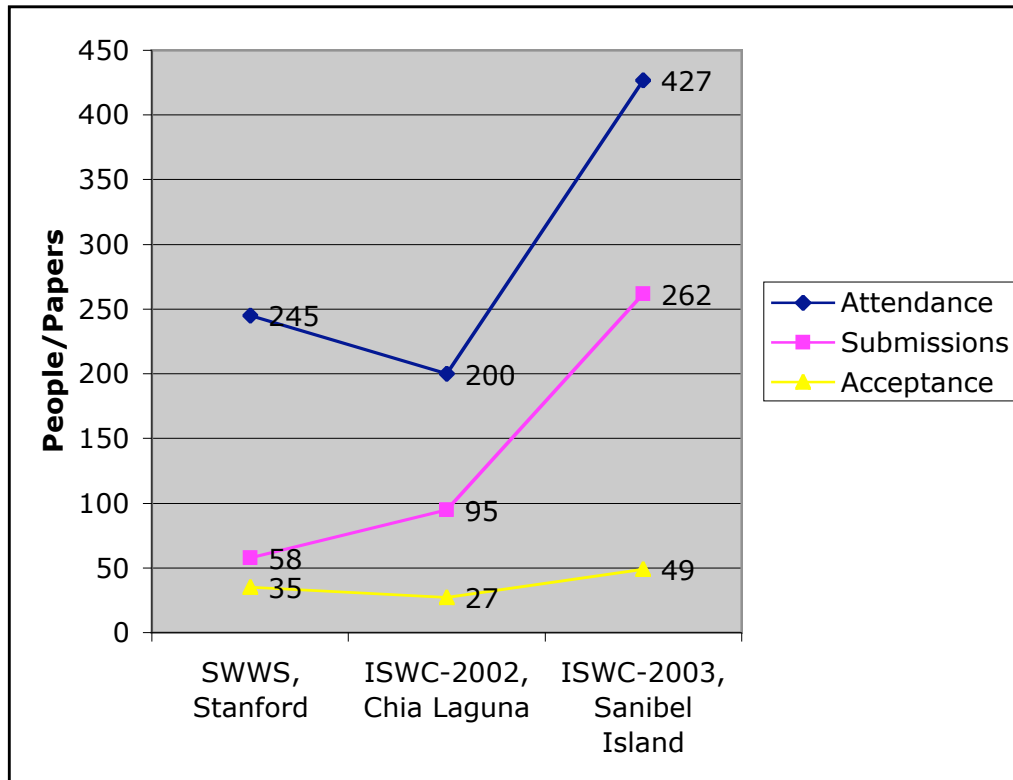
http://iswc2003.semanticweb.org

Many people and institutions have made ISWC possible. In particular, the general chair Dieter Fensel (and his team: Manuela, Sylvia, Mario and Gerold) suppoted 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 winned 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.
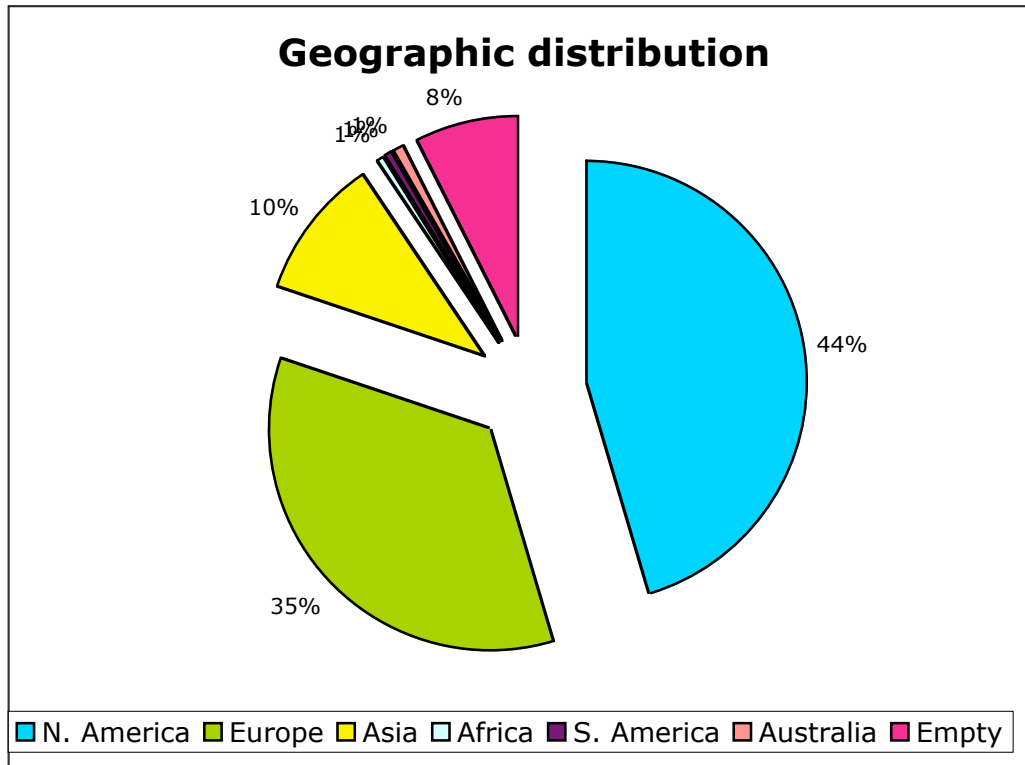

Figure 1: Evolution of the ISWC conference serie in attendance, submitted and accepted papers.

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.

US	189	KR	19	AT	9	GR	2	PT	1
JP	23	CA	15	CH	4	FI	2	BE	1
UK	42	IE	11	BG	4	CN	2	DK	1
NL	20	ES	10	BR	3	TW	2	NO	1
DE	20	FR	10	AU	3	TH	1	EE	1

Table 1: Geographic distribution of ISWC attendance (per country, unknown withdrawn)

Concerning this years 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 years' conference.

Geographic distribution

- N. America
- Europe
- Asia
- Africa
- S. America
- Australia
- Empty

44% — 35% — 10% — 8% — 1%

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.

	People	Percentage
Regular	154	36%
Academic	156	37%
Students	85	20%
Free	31	7%
Total	426	100%

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

OntoWeb: Ontology-based Information Exchange for Knowledge Management and Electronic Commerce

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)

Semi-automatic Semantic Annotation of Images Using Machine Learning Techniques
        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 (Universty 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

[Sundial] Technical session: Semantic Web Services/Challenge/Security, Trust, and Privacy/Tools and Methodologies (Chair: Mark Burstein)

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 Masuoka, 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 Provinence — 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, Riichiro Mizoguchi

Towards a Semantic Enterprise Information Portal — Emanuele Della Valle, Paolo Castagna, Maurizio Brioschi

An Application Server for the Semantic Web — Daniel Oberle, Raphael Volz, Steffen Staab

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, FUmihiko 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 taxononomy and axioms in medecine
        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 SHOP2
  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 InstantGratification
  Luke McDowell, Oren Etzioni, Steven Gribble, Alon Halevy, Henry Levy, William Pentney, Deepak
Verma, Stani Vlasseva
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	University of Innsbruck
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Organisation chair:	Jeffrey Bradshaw	University of West Florida
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Industrial Chair:	Christoph Bussler	Oracle Corporation
Workshop Chairs:	Sheila McIlraith Dimitris Plexousakis	Stanford university University of Crete & FORTH
Demonstration Chair:	Jeff Heflin	Lehigh University
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Metadata Chair:	Steffen Staab	University of Karlsruhe
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Registration Chair:	Atanas Kyriakov	SIRMA AI Lab

OntoWeb: Ontology-based Information Exchange for Knowledge Management and Electronic Commerce

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Georg Lausen (University of Freiburg, Germany)
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Ling Liu (Georgia Tech, USA)
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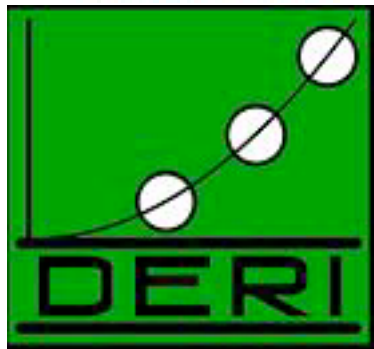
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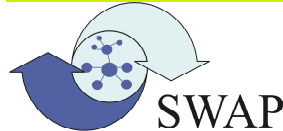

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