

5th International Semantic Web Conference

November 5 – November 9, 2006
Georgia Center for Continuing Education
Athens, Georgia, USA
<http://iswc2006.semanticweb.org>

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PROMOTED BY THE **SEMANTIC WEB SCIENCE ASSOCIATION**

ORGANIZER



WELCOME MESSAGE FROM THE GENERAL CHAIR



Welcome to ISWC 2006 in Athens, Georgia, USA!

The name “Athens” evokes strong symbolisms. The ancient city of Athens was a renowned center of learning, home of Plato’s Academy and Aristotle’s Lyceum. It has been the cradle of Western society. Following this symbolism, the Semantic Web has increasingly greater impact, carrying the potential to form and change society. So let Athens be once more the cradle for a long sustaining development, carrying knowledge out to the world.

This year’s ISWC provides an exciting Research Track, presenting recent research results. A Poster and Demo Program complements the Research Track. The In-Use Track provides exposure to Semantic Web deployments. This is also the second year where a Doctoral Consortium is offered, building on the success of last year. Always an exciting aspect of all International Semantic Web Conferences, the Semantic Web Challenge is a competition in which participants from both academia and industry demonstrate how Semantic Web techniques can provide useful or interesting applications to end-users. This year’s keynote talks by three prominent scientists further enrich the program by providing a vision for the future of the Semantic Web and its implications. A Panel provides the setting for discussions about the relationship between the Semantic Web and Web 2.0. Extensive and wide-ranging Workshop and Tutorial Programs further complement the rest of the conference. An Industry track presents industrial developments of Semantic Web technologies. An expanded metadata initiative aims to create a repository that can be shared among all current and future Semantic Web related conferences.

Making all of this possible requires a lot of work. So I would like to say a big “Thank you” to all the people who made this year’s conference possible.

In the spirit of ISWC 2006, let me conclude this introduction by quoting Aristotle:

“For the things we have to learn before we can do them, we learn by doing them.”

Best wishes,

Daniel Schwabe
General Chair

CONFERENCE CHAIRS

General Chair

Daniel Schwabe Catholic University of Rio de Janeiro (PUC-Rio), Brazil

Research Track Chairs

Isabel Cruz University of Illinois at Chicago, USA
Stefan Decker DERI Galway, Ireland

Semantic Web in Use Track Chairs

Dean Allemang TopQuadrant, USA
Chris Preist HP Labs, UK

Industry Track Chair

Amit Sheth University of Georgia and Semagix Inc., USA

Tutorials Chair

Wolfgang Nejdl L3S and University of Hannover, Germany

Workshops Chair

Vipul Kashyap Partners HealthCare System, USA

Meta Data Chair

Knud Hinnerk Möller DERI, Galway, Ireland

Sponsorship Chairs

Amit Sheth (for the Americas) University of Georgia and Semagix Inc., USA
Steffen Staab (for Europe) University of Koblenz, Germany

Local Organization Chair

I. Budak Arpinar University of Georgia, USA

Printed Proceedings Chair

Jennifer Golbeck University of Maryland, USA

Posters and Demo Chair

Max Wilson University of Southampton, UK
Daniel A. Smith University of Southampton, UK
m.c. schraefel University of Southampton, UK
Libby Miller Asemantics, UK

Semantic Web Challenge Chairs

Peter Mika Vrije Universiteit Amsterdam, The Netherlands
Mike Uschold Boeing Corporation, USA

Doctoral Consortium Chair

Lora Aroyo Eindhoven University of Technology, The Netherlands

ORGANIZER



<http://lsdis.cs.uga.edu>

The LSDIS (Large Scale Distributed Information Systems) lab was established in 1994 with the guidance and direction provided by **Dr. Amit P. Sheth** with the help of **Dr. John A. Miller** and **Dr. Krzysztof J. Kochut**. This faculty group has been further strengthened by the additions of **Dr. I. Budak Arpinar** and **Dr. Prashant Doshi**, as LSDIS faculty members, and **Dr. Leonidas Deligiannidis** and **Dr. Lakshmith Ramaswamy**, as LSDIS associate faculty members.

Over the years LSDIS has been actively involved in research projects in the areas of Databases, Workflows, Information Integration, Web Services and the Semantic Web initiative. Students working in the lab frequently do internships in industry during their study, participate in international conferences and are aggressively pursued by potential employers. This trend has led to several long-lasting collaborations with industry partners. Through its collaborations with industry partners, the lab is able to achieve significant technology transfer. Boeing, MCC, LGERCA and Hewlett Packard Labs have joined the LSDIS Lab as industry sponsor/affiliates in the past. More recently there has been collaboration with Athens Heart Center, IBM TJ Watson, IBM Almaden, CISCO, CTA, Lockheed Martin, Semagix and others.

Sample Research Projects:

Semantic Discovery: Discovering Complex Relationships in Semantic Web: A NSF Medium ITR project
Bioinformatics for Glycan Expression
METEOR-S: Semantic Web Services and Processes
SemGrid: Semantic Discovery on Adaptive Services Grid
SeNS: Semantically Enabled Networking and Services

ISWC IS PROMOTED BY

SWSA – Semantic Web Science Association

<http://www.iswsa.org>

The Semantic Web Science Association (SWSA) is a non-profit organization incorporated in Karlsruhe, Germany for the purpose of promoting and exchanging scholarly work in Semantic Web and related fields throughout the world. The association's activities are selfless; its main objectives do not concern any own economic interests.

Fulfillment of the association's objectives include, among others, supervision of the organization of the **International Semantic Web Conference series (ISWC)**, see **Call for Bids** for further details.

the organization and support of workshops, tutorials, or summer schools in the field of the Semantic Web, co-operation with scientific journals related to the Semantic Web, such as **Elsevier's Journal of Web Semantics: Science, Services and Agents on the World Wide Web**

In order to realize its objectives, the association is allowed to co-operate with other scientific associations, institutions or companies, including membership in other organizations having similar objectives.

FUN THINGS TO SEE AND DO IN ATHENS

Welcome to Athens, a vibrant city that defines sophisticated Southern culture. Just below the foothills of the Blue Ridge Mountains, this university city of just over 100,000 residents offers visitors a unique blend of Southern heritage and contemporary entertainment. A wide range of award-winning restaurants offers distinctive dining. Take time to stroll through our inviting, restored downtown or take a drive through historic districts, featuring antebellum, Victorian, and other period homes. View the state's official art collection, a traveling art exhibition, or one of our many local galleries. Treat yourself to a Broadway production without metropolitan hassles, and experience the bustling nightlife of Athens' world-renowned music scene. Cheer on one of the Georgia Bulldogs' top-ranked collegiate sports teams, or commune with nature at one of our major horticulture nurseries and lovely gardens. Whether you're interested in history, sports, shopping, entertainment, or nature, you'll "Experience a Masterpiece" in Athens!

Athens Attractions

No community of comparable size in the Southeast can boast richer cultural resources than Athens, earning recognition as one of America's "Top 25 Arts Destinations" by AmericanStyle magazine.

From touring Broadway productions and headline entertainers to Athens' symphony orchestra and theatre companies to the myriad of performances and exhibitions at the University of Georgia's Performing and Visual Arts Complex, top-quality venues draw appreciative audiences year-round.

Athens is also renowned for its Visual Arts community, as home to Georgia's official State Museum of Art and a thriving local arts scene, with numerous galleries and artists' studios.

Performing Arts

Hugh Hodgson School of Music, 250 River Rd., UGA Campus

www.music.uga.edu

Talented musicians take part in numerous performances during the school year in the superb concert halls of the UGA Performing Arts Center. Check the school's website for performance calendar. (706-542-3737)

The Classic Center Theatre, 300 N. Thomas St.

<http://www.classiccenter.com>

This 2,050 seat grand showplace is home to Broadway productions, headline entertainers, and the Athens Symphony. 2006-2007 performances include *Jesus Christ Superstar*, *Hairspray*, *I Can't Stop Loving You (The Genius of Ray)*, *An Evening With Marvin Hamlisch*, and *Chicago*. (706-357-4444, 800-864-4160)

The Morton Theatre, 195 W. Washington St.

<http://www.mortontheatre.com>

One of the first vaudeville theaters in the United States built, owned, and operated by an African American, The Morton opened in 1910 and is listed in the National Register of Historic Places. The fully restored Morton presents a wide range of dramatic and musical performances. Free tours available by advance request. (706-613-3770)

Visual Arts

Georgia Museum of Art, 90 Carlton Street, Performing and Visual Arts Complex, UGA Campus

<http://www.uga.edu/gamuseum>

The GMOA houses a permanent collection of more than 8,000 works of art as well as a variety of traveling exhibitions. The modern and elegant facility includes the Museum Shop and Figgie's Café. (706-542-4662)

Lamar Dodd School of Art, Visual Arts Building, Jackson St., UGA Campus

<http://www.visart.uga.edu/>

The galleries at the University of Georgia's art school host revolving showings of student, faculty, and professional work. (706-542-1511)

Lyndon House Arts Center, 293 Hoyt St.

Originally housed within the historic Ware-Lyndon House, the community visual arts complex's recent restoration and expansion includes large airy galleries, a children's wing, artists' workshops, and a gift shop. (706-613-3623)

We Let the Dogs Out - Public Art Exhibit, 36 spots throughout Athens

<http://www.weletthedawgsout.org>

Three dozen larger-than-life bulldogs are on permanent display throughout Athens. Painted by prominent local artists, this unique public art exhibit is a showcase of Athens' artistic talent. Pick up a map of the bulldogs at the Athens Welcome Center and set out on a self-guided tour sure to enchant public art admirers, University of Georgia fans and alumni, and tourists on the lookout for a unique vacation activity. (706-357-4430, 800-653-0603)

Gardens

Athens is the home of America's first garden club, the State Botanical Garden of Georgia, and the Southeast's most diverse collection of gardens and specialty nurseries. Take a stroll through our lovely gardens and major horticulture nurseries!

Founders Memorial Garden, Behind Brooks Hall, UGA North Campus

<http://www.uga.edu/gardenclub/Founder.html>

A trickling fountain, rare flora, winding walkways, and ornamental shrubbery are a grand memorial to the founders of America's first garden club. The fully restored Federal-style antebellum house (1857) is the former headquarters (1964-1998) of the Garden Club of Georgia. Although the house is no longer open for public tours, the rose-colored brick building adds to the ambiance. One of several public gardens on the UGA campus; pick up a map and self-guided tours at the UGA Visitors Center. (706-542-4776)

The State Botanical Garden of Georgia, 2450 South Milledge Ave.

<http://www.uga.edu/botgarden>

This 313-acre preserve features trails that wind to the garden's farthest boundaries, a stunning three-story tropical conservatory, and gardens showcasing native and international flora. Also on the grounds: the lovely Day Chapel and the headquarters of the Garden Club of Georgia. Gift shop and Café Trumps at the Garden. (706-542-1244)

University of Georgia Campus

<http://www.uga.edu/visctr>

In 1785, the University of Georgia was chartered as America's first state college. The city of Athens, named after the ancient Greek center of higher learning, was chartered in 1806. Athens and the University developed a uniquely urbane culture that visitors can experience through historic districts, house museums, and historic landmarks. Historically significant buildings include the Chapel, home to George Cooke's painting of St. Peter's Cathedral. At 17 by 23 1/2 feet, the painting was the largest framed oil painting in the world at the time of its completion. Athens boasts 14 neighborhoods on the National Register of Historic Places. For a handy walking tour guide, request a copy of "A Walking Tour of Athens" from the Athens Welcome Center or the Athens Convention and Visitors Bureau. Tours are also available. (706-542-0842)

Arnocroft House (1903), 925 S. Milledge Ave.

This former home of Eugenia Aurie Arnold was bequeathed to the Athens Junior League in 1994. The beautifully preserved, stately home is wrapped in brick and still possesses the same Federal-style doorway that was added in the 1933 remodeling. Open to the public with advance notice; call to schedule a tour. (706-549-8688)

Carter-Coile Country Doctor's Museum (19th c), Marigold Lane, downtown Winterville

Housed in an authentic medical office from the late 1800s, this unique museum recreates a country doctor's practice. The impressive collection includes physician's instruments and tools for surgery, dentistry, eye exams, and pharmaceuticals. Free admission upon request at Winterville City Hall, 6 miles from downtown Athens and within Athens-Clarke County. (706-742-8600)

Church-Waddel-Brumby House (ca. 1820), 280 E. Dougherty St.

<http://www.visitathensga.com/welcomecenter.html>

This Federal-style house is believed to be Athens' oldest surviving residence. Built for UGA mathematics professor Alonzo Church, it later became home to UGA President Dr. Moses Waddel. Its rescue from demolition and restoration in the early 1970s as a house museum and welcome center sparked the historic preservation movement in Athens. (706-353-1820)

Confederate History: Heartland of the Confederacy Civil War Trails

<http://www.civilwaringeorgia.com>

Athens' rich Civil War heritage places it at the center of this regional self-guided heritage trail. Twenty-four of the trail's 44 sites are located within Athens-Clarke County. Athens sites include historical monuments (Broad St. across from UGA's Arch), homes and house museums belonging to many Confederate leaders, and more unusual relics

(such as the Double-Barreled Cannon). Maps are available at the website, Athens Welcome Center, or contact the Athens Convention & Visitors Bureau. (706-357-4430, 800-653-0603).

E.K. Lumpkin House (1858), 973 Prince Ave.

Early owners of this home include Judge E.K Lumpkin, grandson of Joseph Henry Lumpkin, first Chief Justice of the Georgia Supreme Court. It was in this house that Mary Bryan Thomas Lumpkin, the Judge's wife, called together 12 women on a frosty day in January, 1891, to organize the Ladies Garden Club of Athens -- the first garden club in America. The Lumpkin House is now part of the Young Harris Memorial United Methodist Church. The architectural style features Greek Revival and Italianate elements. Drive by, or inquire at church office. (706-543-2612)

Firehall No. 2/Athens-Clarke Heritage Foundation Headquarters, 489 Prince Ave.

<http://www.achfonline.com>

Used as a fire station until 1979, this wedge-shaped building now serves as the headquarters for the Athens-Clarke Heritage Foundation. The exterior of the fire station remains unchanged and features an iron balcony. An authentic brass fire pole still may be seen inside the building. (706-353-1801)

James White House (Neel Reid, architect, ca. 1923), 1084 Prince Ave.

The work of the renowned Georgia architect Neel Reid, this house, a synthesis of Classic Revival and Palladian elements, is the most palatial Athens mansion of the twentieth century -- with grand rooms, elegant architectural details, classic proportions, and a monumental staircase. It is now the property of Delta Tau Delta fraternity. Drive-by access only.

Joseph Henry Lumpkin House (1841), 248 Prince Ave.

Joseph Henry Lumpkin was the first Chief Justice of the Supreme Court of Georgia and brother of Governor Wilson Lumpkin. In 1841, Lumpkin added the present Greek Revival facade of the house to a house built some years earlier. Drive-by access only.

Oconee Hills Cemetery, behind Sanford Stadium, UGA Campus

Oconee Hill Cemetery was purchased in 1855 by the City of Athens when further burials were prohibited in the old town cemetery on land owned by The University of Georgia. In 1860 original Trustees A.P. Dearing, H. Hull, Jr., T.R.R. Cobb, F. W. Lucas, and P.E. Moore were granted a charter by act of the Georgia General Assembly. The cemetery is still governed by successor Trustees. In early years, graves from the old town cemetery and many county family cemeteries were moved to Oconee Hill. When more land was needed by 1898, the Trustees bought 81.8 acres on the east side of the river. Adjoining the old part of Oconee Hill is the cemetery of the Congregation Children of Israel and a section dedicated by the Athens Manufacturing Company known as the Factory Burying Grounds. Tombstones of soldiers of all America's wars are found in Oconee Hill and on monuments are found the names of many citizens of Athens illustrious in the history of this city, state, and nation. Restricted access.

Seney-Stovall Chapel (ca. 1882), 201 N. Milledge Ave.

The stunning octagonal chapel was built as part of the renowned Lucy Cobb Institute, a girls school now home to the UGA Carl Vinson Institute of Government. Fully restored; call the office of the director to request a tour. (706-542-2736)

T.R.R. Cobb House (ca. 1830s), 175 Hill St.

<http://www.trrcobhouse.org>

T.R.R. Cobb was a UGA graduate, co-founder of its School of Law, Confederate Brigadier General, and principal author of the Confederate Constitution. His home, with its distinctive octagonal wings, was returned in 2004 from Stone Mountain Park to a site near its original Prince Ave. location. The house, with its distinctive octagonal wings and historically appropriate colors, has been completely restored and will open in 2007 as a museum. (706-369-3513)

UGA President's House (ca. 1850), 570 Prince Ave.

John Thomas Grant, a Virginian, built this outstanding Greek Revival residence with its 14 Corinthian columns extending around the three. Drive-by access only.

Ware-Lyndon House (1856), 293 Hoyt St.

Listed in the National Register of Historic Places and one of the few antebellum homes with Italianate elements remaining in the Athens area, Athens' first city recreation center has been completely restored as a house museum and is the centerpiece of the Lyndon House Arts Center. (706-613-3623)

CONFERENCE VENUE

The Georgia Center

1197 South Lumpkin Street
Athens, GA 30602-3603
(800-488-7827)
<http://www.georgiacenter.uga.edu>

The Georgia Center's mission is to provide innovative lifelong learning opportunities that develop intellectual and human potential. As the continuing education arm of The University of Georgia's teaching, research, and service components, the Georgia Center fulfills its mission through award-winning credit and non-credit programs and courses. Faculty members from across the UGA campus are sought out and integrated into the program development process; consequently, the Georgia Center brings to bear potentially all disciplines of the University in meeting the lifelong learning needs of Georgia's adult citizens.

While You Are Here

Your name badge identifies you as a conference participant and should be worn to all sessions, planned meals and refreshment breaks. If you need assistance during your stay, please go to the Business Center (Room 280), stop by the hotel front desk or call 706-583-0421. After 5:00 p.m. and on weekends, go to the hotel front desk or call 706-548-1311. Our Guest Services, located in the main entrance foyer, can provide information about events and activities on campus and in the Athens area (dining, golfing, shopping, etc.).

Hotel Checkout is at 11:00 a.m. You may store your belongings with our Guest Services staff.

Dining Meals included with your event are served in the Magnolia Ballroom, located on the first floor. The convenient and casual Courtyard Café is open Monday-Sunday from 6:30 a.m. – 8:30 p.m. The relaxed, yet elegant Savannah Room restaurant is open for lunch 11:30 a.m. – 2:00 p.m., Monday-Friday, and for dinner 5:00-9:00 p.m., Monday-Saturday. Beer, wine and cocktails are available in the Savannah Room and through the Lobby Bar, which is open 5:00-9:00 p.m., Monday-Saturday.

Please follow the latest announcements for final places of meal events.

Business Center

The Business Center, located in Room 280, near Conference Room K, offers general business supplies, access to e-mail/Internet and photocopy/fax services. Open Monday-Friday, 8:00 a.m. – 5:00 p.m., 706-583-0421.

Internet

Wireless Internet is available in all public areas including boardrooms, conference rooms, auditoriums, lobbies, banquet spaces and outdoor garden seating areas. Guests may log in by providing an e-mail address. Guest accounts provide access to the Internet for port 80 (primary Web browser http: communication) and port 443 (secure Web browser https: communication). Once connected, you must use your Web browser to gain access to external sites. UGA faculty, staff and students may log in using your UGA MyID account. This will provide access to all network services except Telnet, FTP (File Transfer Protocol) and Microsoft RPC (Remote Procedure Call). For assistance Monday-Friday, 8:00 a.m. – 5:00 p.m., contact the Business Center (Room 280) at 706-583-0421. After 5:00 p.m. and on weekends, go to the hotel front desk or call 706-548-1311.

Exercise Facilities

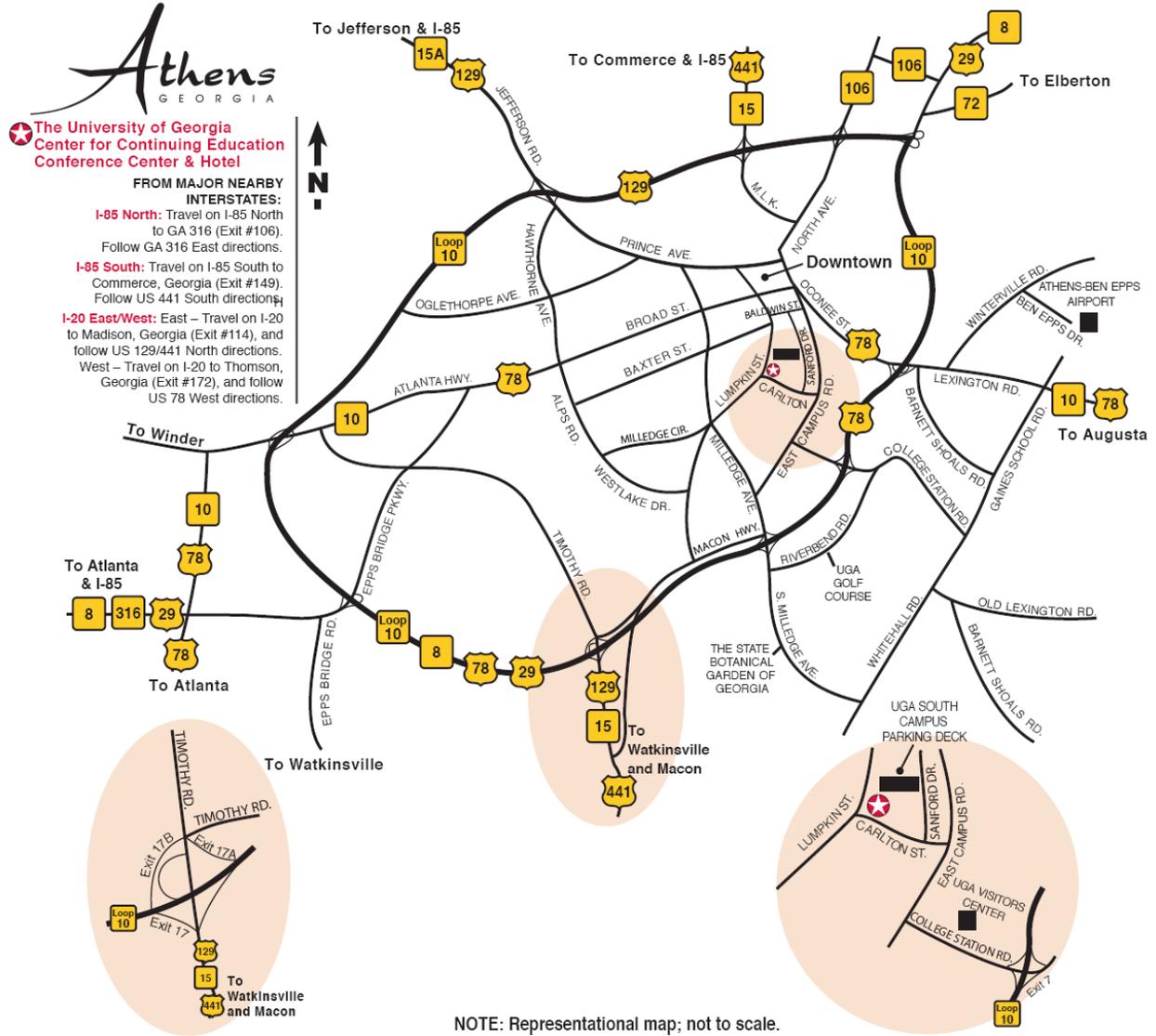
Georgia Center Hotel guests are invited to use the Fitness Center, Room 233. It includes a variety of aerobic fitness equipment; open 5:30 a.m. – 11:00 p.m., seven days a week. UGA's Ramsey Student Center for Physical Activities is available for your use as a conference participant. Take your Georgia Center conference name badge or hotel room key, a picture ID and a towel. The fee is \$5.00 per day (towel service, an additional \$1.00). UGA's Spec Towns Track, located one block from the Georgia Center, is open to the public when not in use for athletic practices or events.

Keeping in Touch

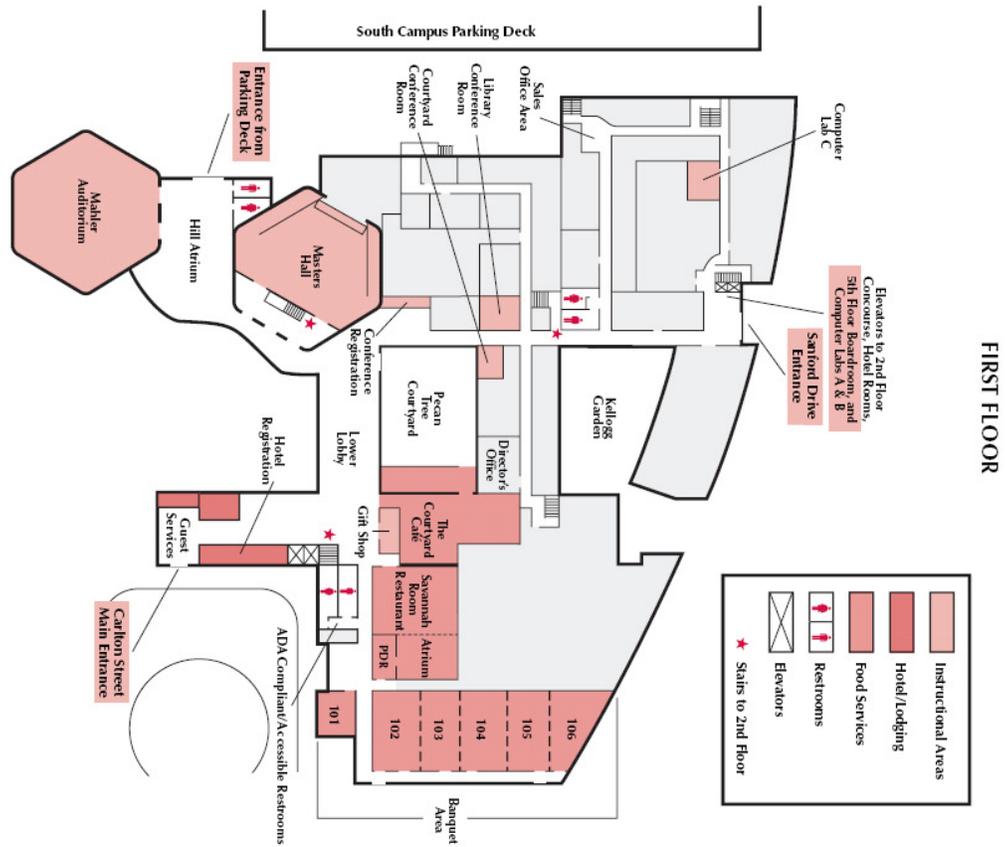
Phone messages may be left for you with our hotel switchboard operator at 706-548-1311. If you are a guest of our hotel, voice mail is also available on your hotel room phone. Mail may be dropped in the mail drop box at the hotel front desk. Stamps may be purchased from the stamp machine in the main entrance foyer.

If you expect to receive an incoming fax, please have it directed to 706-583-0418. You can pick up your fax in the Business Center, 8:00 a.m. – 5:00 p.m., or at the hotel front desk, after 5:00 p.m.

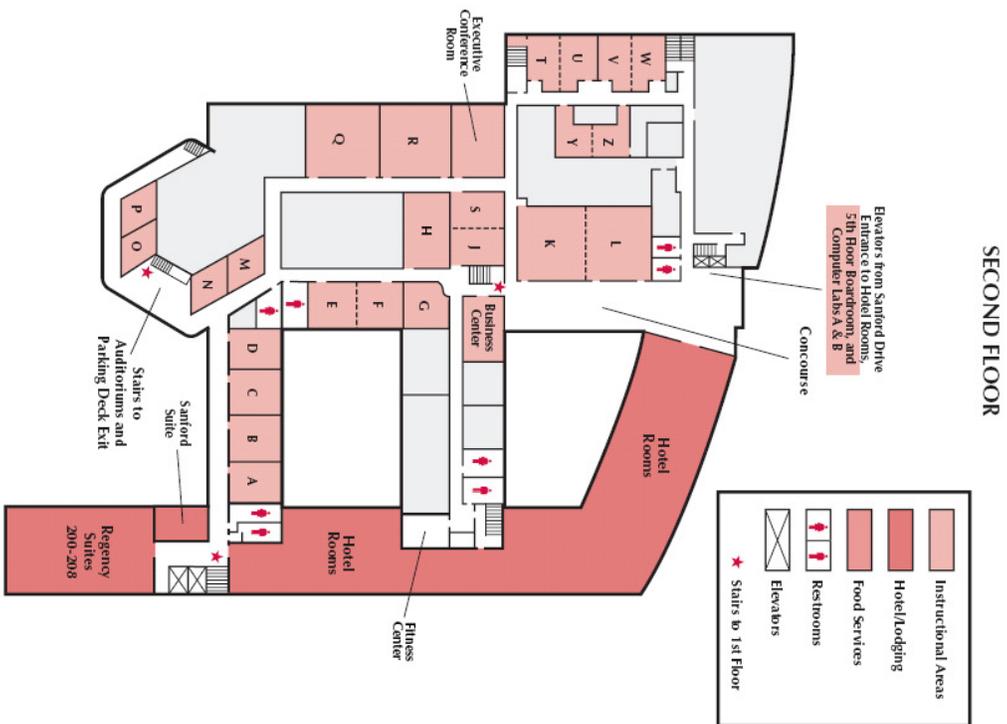
CONFERENCE MAPS



Map of the Athens area



02/05



02/05

Georgia Center floor plan

BUS SCHEDULE

Saturday, November 4, 2006

6pm – 930pm 1 Bus from ATL Airport to GA Center (GC), Holiday Inn (HI), and Hilton Garden Inn (HGI) (arrive at airport at 730pm and depart 8pm)

Sunday, November 5, 2006

7am – 9am 1 Bus w/continuous service from HGI & HI to GC

9am – 1230pm 1 Bus from ATL Airport to GC, HGI & HI (arrive at airport at 1030am and depart 11am)

5pm – 7pm 1 Bus w/continuous service from GC to HGI & HI

Monday, November 6, 2006

7am – 9am 1 Bus w/continuous service from HGI & HI to GC

9am – 1230pm 1 Bus from ATL Airport to GC, HGI & HI (arrive at airport at 1030am and depart 11am)

5pm – 7pm 1 Bus w/continuous service from GC to HGI & HI

6pm – 930pm 1 Bus from ATL Airport to GC, HGI & HI (arrive at airport at 730pm and depart at 8pm)

Tuesday, November 7, 2006

7am – 9am 1 Bus w/continuous service from HGI & HI to GC

5pm – 7pm 1 Bus w/continuous service from GC to HGI & HI

Wednesday, November 8, 2006

7am – 9am 1 Bus w/continuous service from HGI & HI to GC

8pm – 10pm 1 Bus w/continuous service from GC to HGI & HI

Thursday, November 9, 2006

7am – 9am 1 Bus w/continuous service from HGI & HI to GC

330pm – 630pm 1 Bus to ATL Airport from GC, HGI & HI (arrive at airport at 5pm)

5pm – 7pm 1 Bus w/continuous service from GC to HGI & HI

Friday, November 10, 2006

8am – 12pm 1 Bus to ATL Airport from GC, HGI & HI (arrive at airport at 930am)

CONFERENCE PROGRAM – OVERVIEW

November 5, Sunday					
<i>TIME</i>	EVENT	<i>LOCATION</i>	<i>TIME</i>	EVENT	<i>LOCATION</i>
8:00 – 17:00	Modular Ontologies Workshop	ROOM T/U 2 ND FLOOR	8:00 – 17:00	Uncertainty Reasoning for the Semantic Web Workshop	ROOM F/G 2 ND FLOOR
8:00 – 17:00	Ontology Matching Workshop	MASTERS HALL 1 ST FLOOR	8:00 – 17:00	Context Sensitivity in Knowledge Rich Systems Tutorial	ROOM V/W 2 ND FLOOR
8:00 – 17:00	2nd International Semantic Web Policy Workshop (SWPW'06)	ROOM J 2 ND FLOOR	8:00 – 17:00	Semantic Web Rules with Ontologies, and their E-Services Applications Tutorial	ROOM Y/Z 2 ND FLOOR
8:00 – 17:00	Scalable Semantic Web Knowledge Base Systems Workshop	ROOM K 2 ND FLOOR	8:00 – 17:00	Learning from the Masters: Understanding Ontologies found on the Web Tutorial	ROOM L 2 ND FLOOR
			8:00 – 17:00	Doctoral Consortium	ROOM E 2 ND FLOOR

November 6, Monday					
<i>TIME</i>	EVENT	<i>LOCATION</i>	<i>TIME</i>	EVENT	<i>LOCATION</i>
8:00 – 17:00	Applications and Business Aspects of the Semantic Web Workshop	ROOM T/U 2 ND FLOOR	8:00 – 17:00	Terra Cognita - Geospatial Semantic Web Workshop	ROOM J 2 ND FLOOR
8:00 – 17:00	Workshop for W3C Semantic Web Health Care & Life Sciences Workshop	ROOM L 2 ND FLOOR	8:00 – 17:00	Semantic Sensor Networks Workshop	ROOM E 2 ND FLOOR
8:00 – 17:00	Semantic Desktop and Social Semantic Collaboration Workshop	ROOM K 2 ND FLOOR	8:00 – 12:00	Semantic Authoring and Annotation Workshop	ROOM V/W 2 ND FLOOR
8:00 – 17:00	Semantic Web Enabled Software Engineering Workshop	ROOM F/G 2 ND FLOOR	13:00 – 17:00	Web Content Mining with Human Language Technologies Workshop	ROOM V/W 2 ND FLOOR
8:00 – 17:00	Semantic Web User Interaction Workshop	MASTERS HALL 1 ST FLOOR	13:00 – 17:00	Tools and Technologies for Semantic Web Services: An OWL-S Perspective Tutorial	ROOM D 2 ND FLOOR

November 7, Tuesday

9:00 – 10:30	Opening Welcome and Keynote Talk 1 Tom Gruber: <i>Where the Social Web Meets the Semantic Web</i> MAHLER AUDITORIUM – 1 ST FLOOR			
10:30 – 11:00	BREAK			
11:00 – 12:30	Research 1 Social Software MAHLER AUDITORIUM 1 ST FLOOR	Research 2 Robust and Scalable Semantic Web Techniques ROOM F/G 2 ND FLOOR	In-Use 1 Knowledge Management ROOM K/L 2 ND FLOOR	Industry 1 MASTERS HALL 1 ST FLOOR
12:30 – 14:00	LUNCH			
14:00 – 15:30	Research 3 Ontology Mapping, Merging, and Alignment I ROOM K/L 2 ND FLOOR	Research 4 Evaluation of Semantic Web Techniques MAHLER AUDITORIUM 1 ST FLOOR	Research 5 Ontology-Driven Information Extraction MASTERS HALL 1 ST FLOOR	
15:30 – 16:00	BREAK			
16:00 – 17:30	Research 6 Database Technologies MAHLER AUDITORIUM 1 ST FLOOR	Research 7 Semantic Web Service Composition MASTERS HALL 1 ST FLOOR	Research 8 Languages, Tools, and Methodologies for Representing and Managing Data ROOM K/L 2 ND FLOOR	
17:30 – 19:00	Panel: Funding the Semantic Web MAHLER AUDITORIUM – 1 ST FLOOR			
19:00 – 21:00	Posters Reception LOWER LOBBY, HILL ATRIUM, BANQUET AREA			

November 8, Wednesday

Keynote Talk 2 Jane E. Fountain: <i>The Semantic Web and Networked Governance: Promise and Challenges</i> MAHLER AUDITORIUM – 1 ST FLOOR				
<i>BREAK</i>				
9:00 – 10:30	Research 9 Collaboration and Cooperation ROOM FIG 2 ND FLOOR	Research 10 Rule and Ontology Languages MAHLER AUDITORIUM 1 ST FLOOR	In-Use 2 Semantic Integration ROOM K/L 2 ND FLOOR	Industry 2 MASTERS HALL 1 ST FLOOR
<i>LUNCH</i>				
10:30 – 11:00				
11:00 – 12:30				
12:30 – 14:00				
14:00 – 16:00	Research 11 Ontology Mapping, Merging, and Alignment II MAHLER AUDITORIUM 1 ST FLOOR	Research 12 Semantic Web Services ROOM K/L 2 ND FLOOR	In-Use 3 E-Science MASTERS HALL 1 ST FLOOR	
<i>BREAK</i>				
16:00 – 16:30				
16:30 – 18:00	Panel: Web 2.0 Mark Greaves MAHLER AUDITORIUM – 1 ST FLOOR			
<i>FREE TIME</i>				
18:00 – 19:00				
19:30 – ...	Banquet BANQUET AREA			

November 9, Thursday

9:00 – 10:30	Keynote Talk 3 Rudi Studer: <i>The Semantic Web: Suppliers and Customers</i> MAHLER AUDITORIUM – 1 ST FLOOR		
10:30 – 11:00	BREAK		
11:00 – 12:30	Research 13 Applications of SW Technologies with Lessons Learned MAHLER AUDITORIUM 1 ST FLOOR	Research 14 User-Centered Applications ROOM F/G 2 ND FLOOR	Research 15 e-Science and Workflows ROOM K/L 2 ND FLOOR
12:30 – 14:00	LUNCH		
14:00 – 15:30	Research 16 Machine Learning and Query Evaluation MASTERS HALL 1 ST FLOOR	Research 17 Human-Language Technologies I ROOM K/L 2 ND FLOOR	In-Use 4 Services and Middleware MAHLER AUDITORIUM 1 ST FLOOR
15:30 – 16:00	BREAK		
16:00 – 17:00	Closing Ceremony Awards, Next Year's Presentation MAHLER AUDITORIUM – 1 ST FLOOR		

KEYNOTE SPEAKERS

Tom Gruber



Where the Social Web Meets the Semantic Web

The Semantic Web is an ecosystem of interaction among computer systems. The social web is an ecosystem of conversation among people. Both are enabled by conventions for layered services and data exchange. Both are driven by human-generated content and made scalable by machine-readable data. Yet there is a popular misconception that the two worlds are alternative, opposing ideologies about how the web ought to be. Folksonomy vs. ontology. Practical vs. formalistic. Humans vs. machines.

This is nonsense, and it is time to embrace a unified view. I subscribe to the vision of the Semantic Web as a substrate for collective intelligence. The best shot we have of collective intelligence in our lifetimes is large, distributed human-computer systems. The best way to get there is to harness the "people power" of the Web with the techniques of the Semantic Web. In this presentation I will show several ways that this can be, and is, happening.

Tom Gruber is a researcher, inventor, and entrepreneur with a focus on systems for knowledge sharing and collective intelligence. He did foundational work in ontology engineering and is well-known for his definition of ontologies in the context of Artificial Intelligence. The approaches and technologies from this work are precursors to the infrastructure for today's Semantic Web. At Stanford University in the early 1990's, Tom was a pioneer in the use of the Web for collaboration and knowledge sharing. He invented HyperMail, a widely-used open source application that turns email conversations into collective memories, which chronicled many of the early discussions that helped define the Web. He built ontology engineering tools and established the first web-based public exchange for ontologies, software, and knowledge bases. During the rise of the Web, Dr. Gruber founded Intraspect, an enterprise software company that pioneered the space of collaborative knowledge management. Intraspect applications help professional people collaborate in large distributed communities, continuously contributing to a collective body of knowledge. His current project is RealTravel.com, which aspires to be the best place on the web to share knowledge and experiences about travel. RealTravel provides an environment for a community of travel enthusiasts to create beautiful travel journals of their adventures, share them with friends and family, and learn from other like-minded travelers.

Jane E. Fountain



The Semantic Web and Networked Governance: Promise and Challenges

The virtual state is a metaphor meant to draw attention to the structures and processes of the state that are becoming increasingly aligned with the structures and processes of the semantic web. Semantic Web researchers understand the potential for information sharing, enhanced search, improved collaboration, innovation, and other direct implications of contemporary informatics. Yet many of the broader democratic and governmental implications of increasingly networked governance remain elusive, even in the world of public policy and politics.

Governments, not businesses, remain the major information processing entities in the world. But where do they stand as knowledge managers, bridge builders and creators? As they strive to become not simply information-based but also knowledge-creating organizations, public agencies and institutions face a set of striking challenges. These include threats to privacy, to intellectual property, to identity, and to traditional processes of review and accountability. From the perspective of the organization of government, what are some of the key challenges faced by governments as they seek to become networked? What best practices are emerging globally? And in the networked world that is rapidly emerging and becoming institutionalized, how can public, private and nonprofit sectors learn from one another?

Jane E. Fountain is Professor of Political Science and Public Policy and the Director of the Center for Public Policy and Administration at the University of Massachusetts Amherst. She is also the founder and director of the National Center for Digital Government which was established with support from the National Science Foundation to build research and infrastructure in the field of research on technology and governance.

Fountain is the author of *Building the Virtual State: Information Technology and Institutional Change* (Brookings Institution Press, 2001) which was awarded an Outstanding Academic Title in 2002 by Choice. The book has become a classic text in the field and has been translated into and published in Chinese, Japanese and Portuguese. Fountain is currently researching the successor volume to *Building the Virtual State*, which will examine technology-based cross-agency innovations in the U.S. federal government and their implications for governance and democratic processes, and *Women in the Information Age* (to be published by Cambridge University Press), which focuses on gender, information technology, and institutional behavior.

Professor Fountain also directs the Science, Technology, and Society Initiative (STS) and the Women in the Information Age Project (WITIA). The STS Initiative serves as a catalyst for collaborative, multi-disciplinary research partnerships among social, natural and physical scientists. WITIA examines the participation of women in computing and information-technology related fields and, with its partner institutions, seeks to increase the number of women experts and designers in information and communication technology fields.

She has served on several governing bodies and advisory groups in the public, private and nonprofit sectors in the U.S. and abroad. Her executive teaching and invited lectures have taken her to several developing countries and governments in transition including those of Saudi Arabia, the United Arab Emirates, Nicaragua, Chile, Estonia, Hungary, and Slovenia as well as to countries including Japan, Canada, New Zealand, Australia and the countries of the European Union.

Rudi Studer



The Semantic Web: Suppliers and Customers

The notion of the Semantic Web can be coined as a Web of data when bringing database content to the Web or as a Web of enriched human-readable content when encoding the semantics of web-resources in a machine-interpretable form.

It has been clear from the beginning that realizing the Semantic Web vision will require interdisciplinary research. At this the fifth ISWC, it is time to re-examine the extent to which interdisciplinary work has played and can play a role in Semantic Web research, and even how Semantic Web research can contribute to other disciplines. Core Semantic Web research has drawn from various disciplines, such as knowledge representation and formal ontologies, reusing and further developing their techniques in a new context.

However, there are several other disciplines that explore research issues very relevant to the Semantic Web in different guises and to differing extents. As a community, we can benefit by also recognizing and drawing from the research in these different disciplines. On the other hand, Semantic Web research also has much to contribute to these disciplines and communities. For example, the Semantic Web offers scenario that often ask for unprecedented scalability of techniques from other disciplines. Throughout the talk, I will illustrate these points through examples from disciplines such as natural language processing, databases, software engineering and automated reasoning.

The industry also has a major role to play in the realization of the Semantic Web vision. I will therefore additionally examine the added value of Semantic Web technologies for commercial applications and discuss issues that should be addressed for broadening the market for Semantic Web technologies.

Rudi Studer is Full Professor in Applied Informatics at the University of Karlsruhe, Institute AIFB (www.aifb.uni-karlsruhe.de/WBS). His research interests include knowledge management, Semantic Web technologies and applications, ontology management, data and text mining, service-oriented architectures, peer-to-peer systems, and Semantic Grid.

Rudi Studer is also director in the research department Information Process Engineering at the FZI Research Center for Information Technologies at the University of Karlsruhe (www.fzi.de/ipe) and one of the presidents of the FZI Research Center, as well as co-founder of the spin-off company ontoprise GmbH (www.ontoprise.de) that develops semantic applications. He is the current president of the Semantic Web Science Association (www.iswsa.org) and Editor-in-chief of the journal Web Semantics: Science, Services, and Agents on the World Wide Web (www.websemanticsjournal.org).

He is also engaged in various national and international cooperation projects being funded by various agencies such as Deutsche Forschungsgemeinschaft (DFG), the European Commission, the German Ministry of Education and Research, and by industry.

PANELS

November 7, Tuesday, 17:30 - 19:00

Funding the Semantic Web

→ **Location: Mahler Auditorium, 1st floor**

Moderators: *Manfred Hauswirth (Digital Enterprise Research Institute, Galway)*
Amit Sheth (University of Georgia)

Panelists: *Todd Hughes (DARPA)*
Isidro Laso-Ballesteros (European Commission)
Jim Milligan (AFRL)
Frank Olken (NSF)
Mark Greaves (Vulcan Inc.)

In the recent years semantic technologies have demonstrated their usefulness and applicability in a variety of domains, the Semantic Web being the most prominent one. The Semantic Web has started to move from academic research to deployed business-critical and scientific applications, with support from recommendations (standards) developed under W3C governance and a growing list of commercial technologies and products is being developed. These developments seem to be early but firm steps in establishing semantics as a core column of computer science and application development. The outreach of this development can only be assessed to limited degree at the moment, but most likely will affect key aspects of society and the way we communicate.

This high potential was recognized early by funding agencies all over the world. However, after the first strong funding in US by DARPA, subsequent research funding seems to be limited. Europe seems to have seen more substantial and sustained funding, at least during last few years. Now may be a good time to assess what has been achieved so far and how funding agencies see future research directions, funding opportunities and funding environments, i.e., what are the planned strategies and instruments of funding agencies to maximize the impact of future research in semantics. We consider it specifically interesting to the research community to hear the opinions and plans of the major funding bodies around the world and to learn about their view on future issues/requirements/applications/challenges related to semantics and Semantic Web-- and by extension their opinion on the needs of industry, government and education for research in the Semantic Web and related areas.

Web 2.0

→ **Location: Mahler Auditorium, 1st floor**

Moderators: *Mark Greaves (Vulcan)*

Currently, the web phenomenon that is driving the best developers and captivating the best entrepreneurs is Web 2.0. Web 2.0 encompasses some of today's most exciting web-based applications: mashups, blogs/wikis/feeds, interface remixes, and social networking/tagging systems. Although most Web 2.0 applications rely on an implicit, lightweight, shared semantics in order to deliver user value, by several metrics (number of startups funded, number of "hype" articles in the trade press, number of conferences), Web 2.0 technologies are significantly outdistancing semweb technologies in both implementation and mindshare. Hackers are staying up late building mashups with AJAX and REST and microformats, and only rarely including RDF and OWL. This panel will consider whether semantic web technology has a role in Web 2.0 applications, in at least the context of the following areas:

1. Web 2.0 and Semantics: What unique value can semantic web technologies supply to Web 2.0 application areas? How do semantic web technologies match up with the semantic demands of Web 2.0 applications?
2. Semantics and Web "Ecosystems": Web 2.0 applications often strive to build participatory ecosystems of content that is supplied and curated by their users. Can these users effectively create, maintain, map between, and use RDF/OWL content in a way that reinforces the ecosystem?
3. Semantic Web in Practice: Does semantic web technology enable the cost-effective creation of Web 2.0 applications that are simple, scalable, and compelling for a targeted user community? Can semantic web technology genuinely strengthen Web 2.0 applications, or will it just be a footnote to the Web 2.0 wave?

CONFERENCE PROGRAM

November 7, Tuesday, 9:00 – 10:30

Opening Welcome

→ **Location: Mahler Auditorium, 1st floor**

Keynote Talk 1

→ **Location: Mahler Auditorium, 1st floor**

Session chair: Daniel Schwabe

Where the Social Web Meets the Semantic Web

Tom Gruber

November 7, Tuesday, 11:00 – 12:30

Research Session 1: Social Software

→ **Location: Mahler Auditorium, 1st floor**

Session chair: Riichiro Mizoguchi

Innovation Detection based on User-Interest Ontology of Blog Community

Makoto Nakatsuji, Yu Miyoshi, Yoshihiro Otsuka

Extracting Relations in Social Networks from Web using Similarity between Collective Contexts

Junichiro Mori, Takumi Tsujishita, Yutaka Matsuo, Mitsuru Ishizuka

Modeling Social Attitudes on the Web

Matthias Nickles

Research Session 2: Robust and Scalable Semantic Web Techniques

→ **Location: Room F/G, 2nd floor**

Session chair: Siegfried Handschuh

Framework for an Automated Comparison of Description Logic Reasoners

Dmitry Tsarkov, Tom Gardiner, Ian Horrocks

The Summary Abox: Cutting Ontologies Down to Size

Aaron Kershenbaum, Li Ma, Edith Schonberg, Kavitha Srinivas, Achille Fokoue

Reducing the Inferred Type Statements with Individual Grouping Constructs

Ovunc Ozturk, Tugba Ozacar, Murat Osman Unalir

In-Use Session 1: Knowledge Management

→ **Location: Room K/L, 2nd floor**

Session chair: *Matt Johnson*

Semantic web technology for expert knowledge sharing and discovery

Steven Kraines, Weisen Guo, Brian Kemper, Yutaka Nakamura

NEWS: bringing Semantic Web Technologies into News Agencies

Norberto Fernandez, Jose M. Blazquez, Jesus A. Fisteus, Luis Sanchez, Michael Sintek, Ansgar Bernardi, Manuel Fuentes, Angelo Marrara, Zohar Ben-Asher

OntoWiki - A Tool for Social, Semantic Collaboration

Sören Auer, Thomas Riechert, Sebastian Dietzold

Industry Session 1

→ **Location: Masters Hall, 1st floor**

Session chair: *Kunal Verma*

Managing Richly Connected Information

Pankaj Mehra, HP Labs

Semantic Solutions: Generating Business Value from Semantic Web Technologies

Tony Stuart, IBM Almaden Research Labs

Customer Service accelerated by Semantics

Angele Jürgen, Ontoprise

November 7, Tuesday, 14:00 - 15:30

Research Session 3: Ontology Mapping, Merging, and Alignment I

→ **Location: Room K/L, 2nd floor**

Session chair: *Steffen Staab*

A Method for Learning Part-Whole Relations

Willem van Hage, Hap Kolb, Guus Schreiber

Three Semantics for Distributed Systems and their Relations with Alignment Composition

Antoine Zimmermann, Jérôme Euzenat

Formal Model for Ontology Mapping Creation

Adrian Mocan, Emilia Cimpian, Mick Kerrigan

Research Session 4: Evaluation of Semantic Web Techniques

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Deborah McGuinness*

ONTOCOM: A Cost Estimation Model for Ontology Engineering

Elena Paslaru Bontas Simperl, Christoph Tempich, York Sure

Ranking Ontologies with AKTiveRank

Harith Alani, Christopher Brewster, Nigel Shadbolt

A Survey of the Web Ontology Landscape

Taowei Wang, Bijan Parsia, Jim Hendler

Research Session 5: Ontology-Driven Information Extraction

→ **Location: Masters Hall, 1st floor**

Session chair: *Tim Finin*

Ontology-Driven Automatic Entity Disambiguation in Unstructured Text

Joseph Hassell, Boanerges Aleman-Meza, Budak Arpinar

Ontology-driven Information Extraction with OntoSyphon

Luke McDowell, Michael Cafarella

A Framework for Schema-Driven Relationship Discovery from Unstructured text

Cartic Ramakrishnan, Krys Kochut, Amit Sheth

November 7, Tuesday, 16:00 – 17:30

Research Session 6: Database Technologies

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Jos de Bruijn*

Semantics and Complexity of SPARQL

Marcelo Arenas, Jorge A. Perez, Claudio Gutierrez

Ontology Query Answering on Databases

Jing Mei, Li Ma, Yue Pan

Querying the Semantic Web with Preferences

Wolf Siberski, Jeff Pan, Uwe Thaden

Research Session 7: Semantic Web Service Composition

→ **Location: Masters Hall, 1st floor**

Session chair: *John Domingue*

A formal model for semantic Web service composition

Freddy Lécué, Alain Léger

Web Service Composition via Generic Procedures and Customizing User Preference

Sheila McIlraith, Shirin Sohrabi, Nataliya Prokoshyna

A Constraint-based Approach to Horizontal Web Service Composition

Ahlem Ben Hassine, Shigeo Matsubara, Toru Ishida

Research Session 8: Languages, Tools, and Methodologies for Representing and Managing Data

→ **Location: Room K/L, 2nd floor**

Session chair: *Avi Bernstein*

/facet: A Browser for Heterogeneous Semantic Web Repositories

Michiel Hildebrand, Jacco Ossenbruggen, van, Lynda Hardman

Fresnel: A Browser-Independent Presentation Vocabulary for RDF

Christian Bizer, Emmanuel Pietriga, David Karger, Ryan Lee

Extending faceted navigation for RDF data

Eyal Oren, Renaud Delbru, Stefan Decker

November 7, Tuesday, 17:30 - 19:00

Funding Panel

→ **Location: Mahler Auditorium, 1st floor**

Moderators: *Manfred Hauswirth (Digital Enterprise Research Institute, Galway)*
Amit Sheth (University of Georgia)

Panelists: *Todd Hughes (DARPA)*
Isidro Laso-Ballesteros (European Commission)
Jim Milligan (AFRL)
Frank Olken (NSF)

November 7, Tuesday, 19:00 - 21:00

Poster Reception

→ **Location: Lower Lobby, Hill Atrium and Banquet Area**

November 8, Wednesday, 9:00 – 10:30

Keynote Talk 2

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Isabel Cruz*

The Semantic Web and Networked Governance: Promise and Challenges

Jane E. Fountain

November 8, Wednesday, 11:00 – 12:30

Research Session 9: Collaboration and Cooperation

→ **Location: Room F/G, 2nd floor**

Session chair: *Siegfried Handschuh*

Augmenting Navigation for Collaborative Tagging with Emergent Semantics

Melanie Aurnhammer, Peter Hanappe, Luc Steels

A Semantic Context-Aware Access Control Framework for Secure Collaborations in Pervasive Computing Environments

Alessandra Toninelli, Rebecca Montanari, Lalana Kagal, Ora Lassila

A Framework for Ontology Evolution in Collaborative Environments

Natalya Noy, Abhita Chugh, William Liu, Mark Musen

Research Session 10: Rule and Ontology Languages

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Terry Payne*

Can OWL and Logic Programming Live Together Happily Ever After?

Boris Motik, Ian Horrocks, Riccardo Rosati, Ulrike Sattler

A Model Driven Approach for Building OWL DL and OWL Full Ontologies

Saartje Brockmans, Robert M. Colomb, Peter Haase, Elisa F. Kendall, Evan K. Wallace, Chris Welty, Guo Tong Xie

On the Semantics of Linking and Importing in Modular Ontologies

Jie Bao, Doina Caragea, Vasant Honavar

In-Use Session 2: Semantic Integration

→ **Location: Room K/L, 2nd floor**

Session chair: *Mike Dean*

Semantic Desktop 2.0: The Gnowsis Experience

Leo Sauermann, Gunnar Aastrand Grimnes, Malte Kiesel, Christiaan Fluit, Dominik Heim, Danish Nadeem, Benjamin Horak, Andreas Dengel

Explaining Conclusions from Diverse Knowledge Sources

J William Murdock, Deborah McGuinness, Paulo Pinheiro da Silva, Chris Welty, David Ferrucci

Information Integration via an End-to-End Distributed Semantic Web System

Dimitre Dimitrov, Jeff Heflin, Abir Qasem, Nanbor Wang

Industry Session 2

→ **Location: Masters Hall, 1st floor**

Session chair: *Alain Leger*

Integrating Enterprise Data with Semantic Technologies

Susie Stephens, Oracle

Deploying Enterprise Level, Ontology-Driven Faceted Search

Ralph Hodgson and Willie Milnor, TopQuadrant

From the Bench to the Bedside: The role of Semantics in enabling the vision of Translational Medicine

Vipul Kashyap, Partners HealthCare System

November 8, Wednesday, 14:00 – 16:00

Research Session 11: Ontology Mapping, Merging, and Alignment II

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Natasha Noy*

PowerMap: Mapping the Real Semantic Web on the Fly

Vanessa Lopez, Marta Sabou, Enrico Motta

Block Matching for Ontologies

Wei Hu, Yuzhong Qu

Reaching agreement over ontology alignments

Loredana Laera, Valentina Tamma, Jérôme Euzenat, Trevor Bench-Capon, Terry Payne

Research Session 12: Semantic Web Services

→ **Location: Room K/L, 2nd floor**

Session chair: Massimo Paolucci

A Software Engineering Approach to Design and Development of Semantic Web Service Applications

Marco Brambilla, Irene Celino, Stefano Ceri, Dario Cerizza, Emanuele Della Valle, Federico Michele Facca

RS2D: Fast Adaptive Search for Semantic Web Services in Unstructured P2P Networks

Matthias Klusch, Ulrich Basters

IRS-III: A Broker for Semantic Web Services based Applications

Liliana Cabral, John Domingue, Stefania Galizia, Alessio Gugliotta, Barry Norton, Vlad Tanasescu, Carlos Pedrinaci

In-Use Session 3: E-Science

→ **Location: Masters Hall, 1st floor**

Session chair: Joanne Luciano.

Enabling an Online Community for Sharing Oral Medicine Cases Using Semantic Web Technologies

Marie Gustafsson, Göran Falkman, Fredrik Lindahl, Olof Torgersson

From Legacy Relational Databases to the Semantic Web: an In-Use Application for Traditional Chinese Medicine

Huajun Chen, Yimin Wang, Zhaohui Wu, Meng Cui, Ainin Yin, Heng Wang, Yuxin Mao, Jinmin Tang, Chunyin Zhou

Towards Semantic Interoperability in a Clinical Trials Management System

Ravi Shankar, Susana Martins, Martin O, David Parrish, Amar Das

Semantically-Enabled Large-Scale Science Data Repositories

Peter Fox, Deborah McGuinness

November 8, Wednesday, 16:30 – 18:00

Web 2.0 Panel

→ **Location: Mahler Auditorium, 1st floor**

Moderator: Mark Greaves

November 8, Wednesday, 19:30 - ...

Banquet

→ **Location: Banquet Area**

November 9, Thursday, 9:00 – 10:30

Keynote Talk 3

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Stefan Decker*

The Semantic Web: Suppliers and Customers

Rudi Studer

November 9, Thursday, 11:00 – 12:30

Research Session 13: Applications of SW Technologies with Lessons Learned

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Jérôme Euzenat*

Crawling and Indexing Semantic Web Data

Andreas Harth, Juergen Umbrich, Stefan Decker

Using Ontologies for Extracting Product Features from Web Pages

Wolfgang Holzinger, Bernhard Kruepl, Marcus Herzog

Characterizing the Semantic Web on the Web

Li Ding, Tim Finin

Research Session 14: User-Centered Applications

→ **Location: Room F/G, 2nd floor**

Session chair: *Marta Sabou*

SADle: Semantic Annotation for Accessibility

Sean Bechhofer, Simon Harper, Darren Lunn

GINO - A Guided Input Natural Language Ontology Editor

Abraham Bernstein, Esther Kaufmann

CropCircles: Topology Sensitive Visualization of OWL Class Hierarchies

Taowei Wang, Bijan Parsia

Research Session 15: e-Science and Workflows

→ **Location: Room K/L, 2nd floor**

Session chair: *Joanne Luciano*

Semantic Metadata Generation for Large Scientific Workflows

Jihie Kim, Yolanda Gil, Varun Ratnakar

Provenance Explorer – Tailored Provenance Views Using Semantic Inferencing

Kwok Cheung, Jane Hunter

Automatic Annotation of Web Services based on Workflow Definitions

Khalid Belhajjame, Suzanne M. Embury, Norman W. Paton, Robert Stevens, Carole A. Goble

Industry Session 3

→ **Location: Masters Hall, 1st floor**

Session chair: *Michael Uschold*

Knowledge Representation in Practice: Project Halo and the Semantic Web

Mark Greaves, Vulcan Inc.

How Co-Occurrence can Complement Semantics?

Atanas Kiryakov and Borislav Popov, Ontotext

Semantic Web @ W3C: Activities, Recommendations and State of Adoption

Ivan Herman, W3C

November 9, Thursday, 14:00 – 16:00

Research Session 16: Machine Learning and Query Evaluation

→ **Location: Masters Hall, 1st floor**

Session chair: *Vinay Chaudhri*

On How to Perform a Gold Standard Based Evaluation of Ontology Learning

Klaas Dellschaft, Steffen Staab

Tree-structured Conditional Random Fields for Semantic Annotation

Jie Tang, Mingcai Hong, Juanzi Li

Evaluating Conjunctive Triple Pattern Queries over Large Structured Overlay Networks

Erietta Liarou, Stratos Idreos, Manolis Koubarakis

A Relaxed Approach to RDF Querying

Carlos Hurtado, Alexandra Poulouvasilis, Peter Wood

Research Session 17: Human-Language Technologies

→ **Location: Room K/L, 2nd floor**

Session chair: *Guus Schreiber*

Integrating and Querying Parallel Leaf Shape Descriptions

Shenghui Wang, Jeff Z. Pan

Towards Knowledge Acquisition from Information Extraction

Chris Welty, J. William Murdock

Mining Information for Instance Unification

Kalina Bontcheva, Niraj Aswani, Hamish Cunningham

In-Use Session 4: Services and Middleware

→ **Location: Mahler Auditorium, 1st floor**

Session chair: *Oscar Corcho, University of Manchester*

Construction and Use of Role-ontology for Task-based Service Navigation System

Yusuke Fukazawa, Takefumi Naganuma, Kunihiro Fujii, Shoji Kurakake

Ontogator – A Semantic View-Based Search Engine Service for Web Applications

Eetu Mäkelä, Eero Hyvönen, Samppa Saarela

Active Semantic Electronic Medical Record

Nicole Oldham, Amit Sheth, Subodh Agrawal, Jonathan Lathem, Harry Wingate, Prem Yadav,
Kelly Gallagher

A Mixed Initiative Semantic Web Framework for Process Composition

Jinghai Rao, Dimitar Dimitrov, Paul Hofmann, Norman Sadeh

November 9, Thursday, 16:30 - 17:00

Closing Ceremony

→ **Location: Mahler Auditorium, 1st floor**

Awards, Next Year's Presentation

WORKSHOPS

November 5, Sunday, 8:00 - 17:00 (full day)

Modular Ontologies

<http://www.cild.iastate.edu/events/womo.html>

→ **Location: Room T/U, 2nd floor**

Organizers: *Peter Haase* *Institute AIFB, Universitat Karlsruhe*
Vasant Honavar *Department of Computer Science, Iowa State University*
Oliver Kutz *School of Computer Science, The University of Manchester*
York Sure *Institut AIFB, Universitat Karlsruhe*
Andrei Tamilin *University of Trento*

Realizing the full potential of the Semantic web requires the large-scale adoption and use of ontology-based approaches to sharing of information and resources. Constructing large ontologies typically requires collaboration among multiple individuals or groups with expertise in specific areas, with each participant contributing only a part of the ontology. Therefore, instead of a single, centralized ontology, in most domains, there are multiple distributed ontologies covering parts of the domain. Because no single ontology can meet the needs of all users under every conceivable scenario, the ontology that meets the needs of a user or a group of users needs to be assembled from several independently developed ontology modules. Thus, in realistic applications, it is often desirable to logically integrate different ontologies, wholly or in part, into a single, reconciled ontology ...

November 5, Sunday, 8:00 - 17:00 (full day)

Ontology Matching

<http://om2006.ontologymatching.org/>

→ **Location: Masters Hall, 1st floor**

Organizers: *Richard Benjamins* *Intelligent Software Components (iSOCO), Spain*
Jérôme Euzenat *INRIA Rhône-Alpes, France*
Natasha Noy *SMI, Stanford University, USA*
Pavel Shvaiko *DIT, University of Trento, Italy*
Heiner Stuckenschmidt *KR & KM Research Group*
University of Mannheim, Germany
Michael Uschold *The Boeing Company, USA*

Ontology matching is a key interoperability enabler for the Semantic Web, since it takes the ontologies as input and determines as output correspondences between the semantically related entities of those ontologies. These correspondences can be used for various tasks, such as ontology merging, query answering, data translation, or for navigation on the Semantic Web. Thus, matching ontologies enables the knowledge and data expressed in the matched ontologies to interoperate...

November 5, Sunday, 8:00 - 17:00 (full day)

2nd International Semantic Web Policy Workshop (SWPW'06)

<http://www.l3s.de/~olmedilla/events/2006/SWPW06/>

→ **Location: Room J, 2nd floor**

Organizers: *Piero A. Bonatti*
Li Ding
Tim Finin
Daniel Olmedilla

University of Naples
Knowledge Systems Lab, Stanford
University of Maryland Baltimore County
L3S Research Center & Hannover University

Security, privacy and usability of distributed services, and indeed may determine the success (or failure) of a web service. However, users will not be able to benefit from these protection mechanisms unless they understand and are able to personalize policies applied in such contexts. For web services this includes policies for access control, privacy and business rules, among others...

November 5, Sunday, 8:00 - 17:00 (full day)

Scalable Semantic Web Knowledge Base Systems

<http://www.cs.vu.nl/~holger/ssws2006/>

→ **Location: Room K, 2nd floor**

Organizers: *Holger Wache*
Heiner Stuckenschmidt
Bijan Parsia
Yuanbo Guo
Tim Finin
Dave Beckett

Vrije Universiteit Amsterdam, The Netherlands
University of Mannheim, Germany
University of Manchester, UK
Lehigh University, USA
University of Maryland, USA
Yahoo, USA

This workshop aims at creating a forum for discussing a critical issue for the Semantic Web, that is, scalability. As the Semantic Web evolves, scalability becomes increasingly important. This workshop will focus on addressing of the scalability issue with respect to the development and deployment of knowledge base systems on the Semantic Web...

November 5, Sunday, 8:00 - 17:00 (full day)

Uncertainty Reasoning for the Semantic Web

<http://www.iet.com/iswc/2006/ursw/>

→ **Location: Room F/G, 2nd floor**

Organizers: *Paulo C. G. Costa*
Francis Fung
Kathryn B. Laskey
Kenneth J. Laskey
Michael Pool

George Mason University, USA
Information Extraction & Transport, Inc., USA
George Mason University, USA
MITRE Corporation, USA
Convera Inc., USA.

This workshop aims at creating a forum for discussing a critical issue for the Semantic Web, that is, scalability. As the Semantic Web evolves, scalability becomes increasingly important. This workshop will focus on addressing of the scalability issue with respect to the development and deployment of knowledge base systems on the Semantic Web ...

November 6, Monday, 8:00 - 17:00 (full day)

Applications and Business Aspects of the Semantic Web

<http://www.ag-nbi.de/conf/SEBIZ06/>

→ **Location: Room T/U, 2nd floor**

Organizers: *Elena Paslaru Bontas Simperl* *Free University of Berlin, Germany*
Martin Hepp *University of Innsbruck*
Semantics in Business Information Systems, Austria
Sang-goo Lee *Seoul National University, Korea*
Christoph Tempich *AIFB, University of Karlsruhe, Germany*

Within the past five years, the Semantic Web research community has brought to maturity a comprehensive set of foundational technology components, and this both at the conceptual level and in the form of prototypes and software. In order for these research achievements to materialize into large scale corporate applications, they must be complemented by prototypes, methods, and best practices. The availability of best practices, convincing showcases, and quantitative and qualitative metrics that help manage the various stages of building ontologies and ontology-based systems will be important catalysts for disseminating Semantic Web research into enterprise applications ...

November 6, Monday, 8:00 - 17:00 (full day)

Workshop for W3C Semantic Web Health Care & Life Sciences

<http://esw.w3.org/topic/HCLS/ISWC/Workshop>

→ **Location: Room L, 2nd floor**

Organizers: *Tonya Hongsermeier* *Partners HealthCare System*
Joanne Luciano *Harvard Medical School*
Eric Neumann *Teranode Corporation*
Susie Stephens *Oracle*

The Semantic Web Health Care and Life Sciences Interest Group is designed to improve collaboration, research and development, and innovation adoption in the health care and life science industries. Aiding decision-making in clinical research, Semantic Web technologies will bridge many forms of biological and medical information across institutions ...

November 6, Monday, 8:00 - 17:00 (full day)

Semantic Desktop and Social Semantic Collaboration Workshop

<http://www.semanticdesktop.org/xwiki/bin/SemanticDesktopWS2006/>

→ **Location: Room K, 2nd floor**

Organizers:	<i>Stefan Decker</i>	<i>DERI, National University of Ireland, Galway</i>
	<i>Jack Park</i>	<i>SRI International, Menlo Park, USA</i>
	<i>Leo Sauermann</i>	<i>DFKI German Research Center for Artificial Intelligence GmbH</i>
	<i>Sören Auer</i>	<i>University of Pennsylvania, USA</i>
	<i>Siegfried Handschuh</i>	<i>DERI, National University of Ireland, Galway</i>

The Internet, electronic mail, and the Web have revolutionized the way we communicate and collaborate - their mass adoption is one of the major technological success stories of the 20th century. We all are now much more connected, and in turn face new resulting problems: information overload caused by insufficient support for information organization and collaboration. For example, sending a single file to a mailing list multiplies the cognitive processing effort of filtering and organizing this file times the number of recipients, leading to more and more of peoples' time going into information filtering and information management activities. There is a need for smarter and more fine-grained computer support for personal and networked information that has to blend the boundaries between personal and group data, while simultaneously safeguarding privacy and establishing and deploying trust among collaborators ...

November 6, Monday, 8:00 - 17:00 (full day)

Semantic Web Enabled Software Engineering

<http://km.aifb.uni-karlsruhe.de/ws/swese2006>

→ **Location: Room F/G, 2nd floor**

Organizers:	<i>Elisa F. Kendall</i>	<i>Sandpiper Software</i>
	<i>Daniel Oberle</i>	<i>SAP Research</i>
	<i>Jeff Z. Pan</i>	<i>University of Aberdeen</i>
	<i>Phil Tetlow</i>	<i>IBM</i>
	<i>Marwan Sabbouh</i>	<i>MITRE Corporation</i>
	<i>Holger Knublauch</i>	<i>Top Quadrant Software</i>

The advent of the World Wide Web has led many corporations to web-enable their business applications and to the adoption of web service standards in middleware platforms. Marking a turning point in the development of the Web, the Semantic Web is expected to provide more benefits to software engineering. Over the past five years there have been a number of attempts to bring together languages and tools, such as the UML, developed for Software Engineering with Semantic Web languages such as RDF and OWL. The Semantic Web Best Practice and Deployment Working Group (SWBPD) in W3C has started a Software Engineering Task Force (SETF) to investigate potential benefits. Another recent related international standardization activity is OMG's Ontology Definition Metamodel (ODM)...

November 6, Monday, 8:00 – 17:00 (full day)

Semantic Web User Interaction

<http://swui.semanticweb.org/swui06/>

→ **Location: Masters Hall, 1st floor**

Organizers: *Lloyd Rutledge (co-chair)
m.c. schraefel (co-chair)
Abraham Bernstein
Duane Degler*

*Telematica Instituut and CWI
University of Southampton
University of Zurich
IPGems*

While there is much activity in Semantic Web research and deployment, the focus has been mainly on populating repositories. While this offers exciting new ways to capture and process knowledge, the end result often appears in interfaces made familiar by the World Wide Web. SWUI (Semantic Web User Interaction) 2006, on the other hand, explores the new possibilities for the user's experience with knowledge that the Semantic Web enables...

November 6, Monday, 8:00 – 17:00 (full day)

Terra Cognita - Geospatial Semantic Web

<http://www.ordnancesurvey.co.uk/terracognita>

→ **Location: Room J, 2nd floor**

Organizers: *Cathy Dolbear
John Goodwin
Joshua Lieberman*

*Ordnance Survey of Great Britain
Ordnance Survey of Great Britain
Traverse Technologies*

The common threads of information running through diverse data sets and domains are people and identity, money, time and place. While few applications areas are purely representations of geography alone, the concepts of location and place provide a supporting role to many different applications, and as such they are crucial to information integration. It is this concept of integration of information, whether it is represented on web pages or stored in databases, which lies at the core of the semantic web. Estimates suggest that up to up to 80% of all applications have a geographical component – for example, disaster management, transportation, the environment, location-based services, navigation, local search, insurance, retail, marketing, defence and security, asset management, planning and construction. In all these cases, the geospatial element is not the dominant factor; but it provides an important cross-domain framework to which the primary elements in each domain can be referenced ...

November 6, Monday, 8:00 – 17:00 (full-day)

Semantic Sensor Networks

<http://www.ict.csiro.au/ssn06/>

→ **Location: Room E, 2nd floor**

Organizers: *Kerry Taylor
Arun Ayyagari*

*CSIRO ICT Centre, Canberra, Australia
The Boeing Company, Seattle, USA*

Current and future sensing systems involve distributed wired and wireless networks consisting of large numbers of sensors, including active and passive RFID tags. Geographically distributed sensor nodes are capable of forming ad hoc networking topologies that interconnect with backend information management systems and services. Sensor nodes are expected to be dynamically inserted and removed from a network due to deployment of new sensor nodes, failure of deployed sensor nodes, and mobility of tagged objects or sensing platforms...

November 6, Monday, 8:00 - 12:00 (half-day)

Semantic Authoring and Annotation Workshop

<http://saaw2006.semanticweb.org/>

→ **Location: Room V/W, 2nd floor**

Organizers: *Knud Möller* *DERI/NUI Galway (Ireland)*
Anita de Waard *Elsevier Publishing (Netherlands)*
Steve Cayzer *HP Labs, Bristol (United Kingdom)*
Marja-Riitta Koivunen *Annotea.org (USA)*
Michael Sintek *DFKI (Germany)*
Siegfried Handschuh *DERI/NUI Galway (Ireland)*

The "traditional" paradigm of Semantic Web (SW) annotation - annotating existing web sites with the help of external tools - has been established for a number of years now, e.g. in the form of tools such as OntoMat or tools based on Annotea, and is continuously being developed and improved. At the same time, core technologies of the SW - the common, open data-model of the Resource Description Framework and the use of shared vocabularies - are now gradually being introduced into mainstream publishing and authoring channels such traditional online publications or office software, as well as in new and "hip" technologies such as Blogs and Wikis. Regardless of the medium, SW technologies in the authoring domain aim at aiding human content producers to author, structure, annotate and publish text and other media right from the start, rather than enriching them with metadata at a later stage ...

November 6, Monday, 13:00 - 17:00 (half-day)

Web Content Mining with Human Language Technologies

<http://orestes.ii.uam.es/workshop/>

→ **Location: Room V/W, 2nd floor**

Organizers: *Enrique Alfonseca* *Universidad Autonoma de Madrid*
Thierry Declerck *Tokyo Institute of Technology*
Manabu Okumura *DFKI GmbH, Germany*
Satoshi Sekine *Tokyo Institute of Technology*
Hiroya Takamura *New York University*
Tokyo Institute of Technology

The web itself is a very useful source of information to train and exploit HLT systems for tasks as diverse as Named Entity Identification and Classification, Term Identification, Relationships Extraction, and Ontology Learning and Population from text. The Semantic Web can benefit from the availability of such tools, and contribute by providing knowledge representation formalisms, reasoning methods, and applications that exploit the extracted information. This workshop's aim is to facilitate the interaction between researchers from all these communities...

TUTORIALS

November 5, Sunday, 8:00 – 17:00 (full day)

Context Sensitivity in Knowledge Rich Systems

<http://analytics.ijs.si/events/Tutorial-ContextSensitivity-ISWC2006-Atlanta-Nov2006/>

→ **Location: Room V/W, 2nd floor**

Presenters: *Grobelnik, Mozetic (JSI), Witbrock (Cycorp), Hitzler, Haase (AIFB)*

Context sensitivity of applications is an important requirement for modern information and communication systems. The key improvement is adaptivity to the situations in which the system needs to react. This enables more efficient and robust functioning in dynamic environments. Therefore, identification and assignment of a context is a necessary factor to provide services and applications that are tailored to the user and the user's current situation.

The main goal of this tutorial is to provide an extensive survey of the past and current work in the area of context related topics. This includes analysis of the past work: (1) defining the notion of "context", (2) present logic-based formalisms for dealing with contexts, (3) present probabilistic/fuzzy approaches to model context, (4) demonstrate "modelling the context" and "reasoning with contexts" in real-life applications. In addition, the presented work we will provide a synthesis of the past work in the light of a unified categorization of context-related approaches along several dimensions which appear as relevant from theoretical and practical point of view (see outline for details).

November 5, Sunday, 8:00 – 17:00 (full day)

Semantic Web Rules with Ontologies, and their E-Services Applications

→ **Location: Room Y/Z, 2nd floor**

Presenters: *Grosz (MIT), Dean (BBN)*

Rules are a main emerging area of the Semantic Web. There has been significant progress in just the last three years in several aspects of Semantic Web rules. This includes exciting developments in the underlying knowledge representation formalisms as well as advances in integration of rules with ontologies; translations between heterogeneous commercial rule engines; development of open-source tools for inferencing and interoperability; standards proposals and efforts (including RuleML, SWRL, Semantic Web Service Framework, and recently W3C Rule Interchange Format); proposals for rule-based semantic Web services; and pilot applications in the emerging area of e-services. This tutorial will provide an introduction to these developments and will explore techniques, applications, and challenges. We will also touch upon the issues of business value, adoption, investment, and strategy considerations.

November 5, Sunday, 8:00 - 17:00 (full day)

Learning from the Masters: Understanding Ontologies found on the Web

→ **Location: Room L, 2nd floor**

Presenters: *Grau, Horrocks, Parsia, Sattler (Manchester), Patel-Schneider (Bell Labs)*

OWL ontologies are now in use in areas as diverse as e-Science, medicine, biology, geography, astronomy, defence, and the automotive and aerospace industries (to name but a few). OWL is also the focus of much research into reasoning, language extensions, modeling techniques, and perhaps most importantly, tool support that makes these various extensions and techniques accessible to users. A wide range of tools is already available that make it significantly easier to work with ontologies. However, many people are not away of these new features, or just lack the experience to be able to use them successfully to navigate through a novel ontology with an eye to understanding it well enough to pick up useful tips and tricks, or even to understand it well enough, as a domain expert, to correct or otherwise modify it.

The purpose of this tutorial is to help attendees gain sufficient experience of working with OWL and tools to allow them to fruitfully explore new ontologies that they may encounter. In other words, they should be able to do the equivalent of “view source” on an ontology. Also, they will get better fluency in the use and abuse of OWL by examining features, limitations, and workarounds in real contexts, as well as gaining an understanding of the impact of future extensions of OWL, in particular of rules and the proposed revision of the language called OWL 1.1.

November 6, Monday, 13:00 - 17:00 (half-day)

Tools and Technologies for Semantic Web Services: An OWL-S Perspective

→ **Location: Room D, 2nd floor**

Presenters: *Katia Sycara, David Martin*

This tutorial will take an in-depth look at the current state of the art in Web Services and sort through the increasing and confusing array of relevant tools, languages and theories both from academia and industry. The tutorial will also present and discuss business models for Web services and their potential for business value added. Many examples to illustrate the described concepts, techniques, tools and their use will be presented. The tutorial will also discuss limitations of current technologies and present value added advanced concepts, such as distributed service composition, Semantic Web enabled Web services, agent-mediated Web services, as well as open issues that must be addressed with emphasis on agent researcher contributions.

The tutorial will have six parts. Part I will present a general brief overview of the concept of Web Services. Part II will present a critical survey of the most promising current industry standards. Part III will present limitations of current state of the art industry standards and present needed semantic infrastructure for value added. Part IV will present schemas/languages and ontologies for semantic description of Web services and semantic annotation of content of services so they can be agent-discoverable, invocable and composable. In particular, this part will focus on OWL-S. Part V will present OWL-S tools and applications. Part VI will present conclusions, challenges and open problems.

POSTERS

November 7, Tuesday, 19:00 – 21:00

→ **Location: Lower Lobby, Hill Atrium and Banquet Area**

Building Consensus on Ontology Mapping

Paulo Maio, Nuno Silva

Developing SWS for e-Government

Leticia Gutierrez

R2D2: combining spatial and semantic queries into spatial databases

Catherine Dolbear, Glen Hart

Semantic Web Communities with DBin

Christian Morbidoni, Giovanni Tummarello, Michele Nucci

SmartWeb: Mobile Access to the Semantic Web

Anupriya Ankolekar, Paul Buitelaar, Philipp Cimiano, Pascal Hitzler, Malte Kiesel, Markus Krötzsch, Holger Lewen, Günter Neumann, Michael Sintek, Tuvshintur Tserendorj, Rudi Studer

SOBA: SmartWeb Ontology-based Annotation

Paul Buitelaar, Philipp Cimiano, Anette Frank, Stefania Racioppa

Enhancing Software Maintenance by using Semantic Web Techniques

David Hyland-Wood, David Carrington, Simon Kaplan

Superconcept Formation System--An Ontology Matching Algorithm for Web Applications

Jingshan Huang, Michael Huhns

OWL Metadata Framework for a Baseball Q&A System

Masaru Miyazaki, Takeshi Kobayakawa, Jun Goto, Nobuyuki Hiruma, Nobuyuki Yagi

Flexible Provisioning of Semantic Web Service Workflows using a QoS Ontology

Sebastian Stein, Terry Payne, Nicholas Jennings

Semantic Desktop 2.0: Demo of the Gnowsis Experience

Leo Sauermann, Gunnar Aastrand Grimnes, Malte Kiesel

ContextWatcher - Connecting to Places, People and the World

Sebastian Boehm, Marko Luther, Johan Koolwaaij, Matthias Wagner

SPAR2QL: From SPARQL to Rules

Axel Polleres

Semantic Annotations for WSDL (SAWSDL)

Analyzing Theme, Space, and Time: An Ontology-based Approach

Matthew Perry, Farshad Hakimpour, Amit Sheth

Towards Real Time Ontology Editing

Christian Halaschek-Wiener, Bijan Parsia

Syndication on the Web using Incremental Description Logic Reasoning

Christian Halaschek-Wiener

Implementing and Optimizing OWL Defaults

Vladimir Kolovski

Web based operation and maintenance of physical networks

David Leal, Andrea Schröder

RDF/OWL Representation of WordNet 2.1 and Japanese EDR Electronic Dictionary

Seiji Koide, Takeshi Morita, Takahira Yamaguchi, Hendry Muljadi, Hideaki Takeda

System for Retrieving a Web Browsing Experience Using Semantic History Data

Tetsushi Morita, Tsuneko Kura, Tetsuo Hidaka, Akimichi Tanaka, Yasuhisa Kato

DIG 2.0: An Interface for Description Logic Systems

Sean Bechhofer

KawaWiki: A Template-Based Semantic Wiki Where End and Expert Users Collaborate

Yasuhiko Kitamura, Kensaku Kawamoto, Yuri Tijerino

A Networked Semantic Environment

Christoph Ringelstein, Thomas Franz, Carsten Saathoff, Simon Schenk

Semantic Web Services Wiki

José M. Blázquez-del-Toro, Jesús Arias Fisteus, Luis Sánchez-Fernández

/facet: A Browser for Heterogeneous Semantic Web Repositories

Michiel Hildebrand, Jacco Ossenbruggen, van, Lynda Hardman

Efficient Service Matchmaking using Tree-Structured Clustering

Bernhard Tausch, Claudia Damato, Steffen Staab, Nicola Fanizzi

Using Semantic Web Services in the Internet of Things

Paolucci Massimo, Gregor Broll, John Hamard², Enrico Rukzio¹, Sven Siorpaes¹, Hamard, Enrico Rukzio, Sven Siorpaes, Albrecht Schmidt, Matthias Wagner

DartMapping: A visualized Semantic Mapping tool for integrating heterogeneous relational databases into Semantic Web

Chunying Zhou, Huajun Chen, Heng Wang, Zhaohui Wu

Querix: A Natural Language Interface to Query Ontologies Based on Clarification Dialogs

Esther Kaufmann, Abraham Bernstein, Renato Zumstein

Reviews and Ratings on the Semantic Web

Tom Heath, Enrico Motta

SVM: Semantic Versioning Manager

Tudor Groza, Max Voelkel, Siegfried Handschuh

enVision: An integrated approach towards Semantic Authoring

Tudor Groza, Siegfried Handschuh, Stefan Decker

SALT: Enriching LATEX with Semantic Annotations

Tudor Groza, Hak Lae Kim, Siegfried Handschuh

ASPL: Semantic Web platform supporting Learning

Martin Dzbor

VizThis : Information Visualization with Semantically Assisted Mapping of Data Entities to Representation Artefacts

Owen Gilson, Nuno Silva, Phil Grant, Min Chen, Joao Rocha

Semi-Automatic Data-Drive Ontology Construction System

Blaz Fortuna, Marko Grobelnik, Dunja Mladenic

Semantic Squirrels

Hugh Glaser

Publishing Relational Data on the Web – Correctly

Chris Bizer, Richard Cyganiak

BaseVISor: A Forward-Chaining Inference Engine Optimized for RDF/OWL Triples

Christopher Matheus, Kenneth Baclawski, Mitch Kokar

Interactive User Profiling in Semantically Annotated Museum Collections

Semantic Blogging with semiBlog

Knud Möller

Harvesting Ontology Hierarchy Information using CropCircles

Taowei Wang, Bijan Parsia

S-Cube II: Integration of OSGi-Based Service and Semantic Web-Based Middleware System for Context Aware Services

Yong-il Jeong, Ivan Berlocher, Tae-sung Ahn, Kyung-il Lee

Semantic Web Based Tagging with Annotea

Marja-Riitta Koivunen

AKTiveMedia: Cross-media Document Annotation and Enrichment

Vitaveska Lanfranchi, Ajay Chakravarthy, Fabio Ciravegna

Ontology-Enabled Virtual Observatories: Semantic Integration in Practice

Deborah McGuinness, Peter Fox, Luca Cinquini, James Benedict, Tony Darnell, Jose Garcia, Patrick West, Don Middleton

SEMANTIC WEB CHALLENGE

November 7, Tuesday, 19:00 – 21:00

→ **Location: Lower Lobby, Hill Atrium and Banquet Area**

A semantic web application for expert knowledge sharing, discovery, and integration

Steven Kraines, Weisen Guo, Brian Kemper, Yutaka Nakamura

Semantics-based Automatic Metadata Tracking and Service Insertion in Geospatial Web Service Composition

Peng Yue, Liping Di, Wenli Yang, Genong Yu, Peisheng Zhao

PaperPuppy: Sniffing the Trail of Semantic Web Publications

Jennifer Golbeck, Yarden Katz, Daniel Krech, Aaron Mannes, Taowei David Wang, James Hendler

Semantic Interoperability Global Network System (SIGNS)

Mary C. Parmelee, Tim Tschampel

A Semantic Web Services GIS based Emergency Management Application

Vlad Tanasescu, Alessio Gugliotta, John Domingue, Rob Davies, Leticia Gutiérrez-Villarías, Mary Rowlatt, Marc Richardson, Sandra Stinčić

Foafing the Music: Bridging the semantic gap in music recommendation

Oscar Celma

MultimediaN E-Culture demonstrator

Guus Schreiber, Alia Amin, Mark van Assem, Victor de Boer, Lynda Hardman, Michiel Hildebrand, Laura Hollink, Zhisheng Huang, Janneke van Kersen, Marco de Niet, Borys Omelayenko, Jacco van Ossenbruggen, Ronny Siebes, Jos Taekema, Jan Wielemaker, Bob Wielinga

Dartgrid: a Semantic Web Toolkit for Integrating Heterogeneous Relational Databases

Huajun Chen, Yimin Wang, Zhaohui Wu, Meng Cui, Ainin Yin, Heng Wang, Yuxin Mao, Jinmin Tang, and Cunyin Zhou

PressIndex: a Semantic Web Press Clipping Application

Florence Amardeilh, Olivier Carloni, Laurence Noël

Semantic MediaWiki

Markus Krötzsch, Denny Vrandečić, Max Völkel

Collimator – Collaborative Image Annotator & Visual Concept Map Generator

Alireza Kashian, Mehdi Milanifard, Hashem Tatari

Falcon-S: An Ontology-Based Approach to Searching Objects and Images in the Soccer Domain

Honghan Wu, Gong Cheng, Yuzhong Qu

COHSE: Knowledge-Driven Hyperlinks

Sean Bechhofer, Yeliz Yesilada, Bernard Horan

Enabling Semantic Web communities with DBin: an overview

Giovanni Tummarello, Christian Morbidoni, Michele Nucci

DOCTORAL CONSORTIUM

November 5, Sunday, 8:00 – 17:00

→ **Location: Room E, 2nd floor**

FULL PAPERS

Towards a usable Group Editor for Ontologies

Jan Henke

A Workbench for Thesaurus Mapping in the Cultural Heritage domain

Marjolein van Gendt (retracted)

Package-based Description Logics - Preliminary Results

Jie Bao, Doina Caragea, Vasant Honavar

Talking to the Semantic Web - Query Interfaces to Ontologies for the Casual User

Esther Kaufmann

From Typed-Functional Semantic Web Services to Proofs

Harry Halpin

Towards a Global Scale Semantic Web

Zhengxiang Pan

Changing Ontologies Break the Queries

David Liang

POSTERS

Distributed Policy Management in Semantic Web

Ozgu Can, Murat Osman Unalir

Evaluation of SPARQL queries using relational databases

Jiri Dokulil

Towards Semantic Metadata for Learning Resources Using Folksonomies and Domain Ontologies

Hend Al-Khalifa (retracted)

Dynamic Contextual Regulations in Open Multi-Agent Systems

Carolina Felicissimo

Improving XML Schema Matching with Ontologies

Christian Drumm

Triple Space Computing for Semantic Web Services

Omar Shafiq

Schema mappings for the web

Francois Scharffe

Toward Making Online Biological Data Machine Understandable

Cui Tao

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