Final Program

Last update: 30 July 2008

Monday August 4

9.00 – 12.00 a.m.	**Tutorials**
GB A (till 11.30 a.m.)	**Tutorial 1: "Text Analytics for Semantic Computing - the Good, the Bad and the Ugly"** Instructors: Meenakshi Nagarajan, Cartic Ramakrishnan and Amit Sheth
GB C	**Tutorial 3: "Semantic Business Process Management"** Instructors: Agata Filipowska, Dimka Karastoyanova, Sebastian Stein, Michael Stollberg, and Maciej Zaremba
12.00 – 1.30 p.m.	**Lunch (on your own)**
1.30 – 4.30 p.m.	**Tutorials**
GB A	**Tutorial 4: "Enhancing Semantic via Knowledge Discovery from Distributed Multimedia Information Systems"** Instructor: Arif Ghafoor
GB C	**Tutorial 6: "Utilizing Federated Knowledge in Semantic Web Applications"** Instructor: Jans Aasman
9.00 a.m. – Ballroom DE	**Workshop: "Middleware for the Semantic Web: Enabling a Web of Knowledge and Services"**

10.00 a.m. – 11.00 a.m.
Invited Talk: Ian Oliver, Nokia Research Center, Finland "Personal Semantic Web Through A Space Based Computing Environment"

Towards a Semantic Enabled Middleware for Publish/Subscribe Applications
Federico M. Facca, Srdjan Komazec, and Michal Zaremba

Semantic Agent Programming Language (S-APL): A Middleware Platform
for the Semantic Web
Artem Katasonov and Vagan Terziyan

Towards a RESTful Plug and Play Experience in the Web of Things *Vlad Stirbu*

Implementation of a Novel Semantic Web Middleware Approach Based on Triplespaces
Kia Teymourian, Lyndon Nixon, Daniel Wutke, Reto Krummenacher, and Hans Moritsch

Tuesday August 5

7.00 – 8.00 a.m.	**Breakfast**
8.00 – 8.30 a.m. Ballroom DE	**Welcome to ICSC2008: Phillip Sheu**
8.30 – 9.30 a.m.	**Keynote Address:** **"Building and verifying a shallow ontology for higher-quality NLP"** ***Eduard Hovy, Information Sciences Institute,*** ***University of Southern California*** Session Chair: Martha Palmer
9.30 – 10.00 a.m.	**Coffee Break**
10.00 – 12.00 a.m.	**Session 1**

Parallel Session 1 (GB A)   **Special Session: Mobile Semantic Computing**

Semantic Models for Ad Hoc Interactions in Mobile, Ubiquitous Environments
Eric Bouillet, Mark Feblowitz, Zhen Liu, Anand Ranganathan, and Anton Riabov

Mobile Mashups: Thoughts, Directions, and Challenges
E. Michael Maximilien

Semantic Web Approach to Personal Information Management on Mobile Devices
Ora Lassila

Parallel Session 2 (GB B)   **Industry Session**
Session Chair: Mark Wood

A Tool for Annotating Services with Domain Specific Semantics
Nikolaos Loutas, Lemonia Giantsiou, Alex Simov, Vassilios Peristeras, and Konstantinos Tarabanis

Appscio: A Software Environment for Semantic Multimedia Analysis
Gerald Friedland, Eden Hensley, Ramesh Jain, and Jerry Schumacher

Adopting Graph Traversal Techniques for Context-Driven Value Sets Extraction from Biomedical Knowledge Sources
Jyotishman Pathak, Guoqian Jiang, Sridhar O. Dwarkanath, James D. Buntrock, and Christopher G. Chute

Ontology-Based Topic Extraction Service from Weblogs
Shinichi Nagano, Masumi Inaba, Yumiko Mizoguchi, Takayuki Iida, and Takahiro Kawamura

Ontology Refactoring
David A. Ostrowski

Large-Scale Benchmarking of the OWL Interoperability of Semantic Web Technologies
Raúl García-Castro and Asunción Gómez-Pérez

Parallel Session 3   **Natural Language Processing Session 1**
(Ballroom DE)   Session Chair: Martha Palmer

Text Categorization Based on Boosting Association Rules
Yongwook Yoon and Gary G. Lee

A Comparative Study of Feature Extraction Algorithms in Customer Reviews
Liliana Ferreira, Niklas Jakob, and Iryna Gurevych

Sentiment Regression: Using Real-Valued Scores to Summarize Overall Document Sentiment
Adam Drake, Eric Ringger, and Dan Ventura

Speech Emotion Classification Using Machine Learning Algorithms
S. Casale, A. Russo, G. Scebba, and S. Serrano

12.00 – 1.30 p.m.	**Lunch (on your own)**
1.30 – 3.00 p.m. Ballroom DE	**Industry Panel** **"Getting Traction and Not Skid Marks: The Rubber Meets the Road"**
Moderator: Mark D. Wood, Eastman Kodak Company	*Panelists:* Jans Aasman, CEO, Franz, Inc. Jeffrey T. Pollock, Senior Director, Oracle Raghu Ramakrishnan, Chief Scientist, Yahoo! Research Michael Uschold, Senior Ontologist, Reinvent Technology
3.00 – 4.00 p.m.	**Coffee Break**
4.00 – 5.30 p.m. Ballroom DE	**Demonstration Session** Session Chair: Christoph Bussler

OPOSSum—An Online Portal to Collect and Share SWS Descriptions
Ulrich Küster, Birgitta König-Ries, and Andreas Krug

Semantically-Assisted Integration Query Editing in the AquaLogic Data Services Platform
M. Carey, S. Ghandeharizadeh, K. Mehta, P. Mork, L. Seligman, S. Srivastava, and S. Thatte

OPTIMA: Tool for Ontology Alignment with Application to Semantic Reconciliation of Sensor Metadata for Publication in SensorMap
Ravikanth Kolli and Prashant Doshi

Utilizing Federated Knowledge in Semantic Web Applications
Jans Aasman

Activity Recognition Using a Web 3.0 Database
Jans Aasman

Discovering Entities Relationships on the Web
Wei Yu, Junpeng Chen, and Guoying Yu

The WSMO-PA Service Editor
Lemonia Giantsiou, Alex Simov, Nikolaos Loutas, Vassilios Peristeras, and Konstantinos Tarabanis

ELF: A Constraint-Aware XQuery Engine for Processing XML Streams with Minimized Memory Footprint
Ming Li, Murali Mani, and Elke A. Rundensteiner

WSMX Middleware for Dynamic Discovery in B2B Integration
Maciej Zaremba, Tomas Vitvar, Jacek Kopecký, and Omair Shafiq

10.00 a.m. – 5.30 p.m. GB C	**Special Session: Scalability in Semantic Computing: The European View**
10.00 – 10.15 a.m.	**Opening** (Elena Simperl, STI Innsbruck)
10.15 – 11.15 a.m.	**Keynote Speaker** - *Real-World Strategies for Scaling* - (Randy Shoup, Distinguished Architect in the eBay Marketplace Architecture Group)
11.15 a.m. – 12.15 p.m.	**Session 1** (Session Chair: Federico Facca, STI Innsbruck)
	11:15 - 11:45 SOA4All, Enabling the SOA Revolution on a World Wide Scale (Carlos Pedrinaci, Open University)
	11:45 - 12:15 Entity Name System: The Back-bone of an Open and Scalable Web of Data (Heiko Stoermer, University of Trento)
12.15 – 1.30 p.m.	**Lunch**
3.00 – 5.30 p.m.	**Session 2** (Session Chair: Elena Simperl, STI Innsbruck)
	3:00 - 3:30 *Towards LarKC: a Platform for Web-scale Reasoning* (Huang Zhisheng, Free University of Amsterdam)
3.30 – 4.00 p.m.	**Coffee Break**
	4:00 - 4:30 *Semantic Business Process Management: Scaling up the Management of Business Processes* (Carlos Pedrinaci, Open University)
	4:30 - 5:00 *Scalability in Semantic Computing: Semantic Middleware* (Reto Krummenacher, STI Innsbruck)
	5:00 - 5:30 *A Conceptual Roadmap for Scalable Semantic Computing* (Graham Hench, STI International)
5.30 p.m.	**Closing**

Wednesday August 6

7.00 – 8.00 a.m.	**Breakfast**
8.30 – 9.30 a.m. Ballroom DE	**Keynote Address:** **"The geospatial web - A state of the art report"** ***Michael F. Goodchild, Director of Spatial Studies,*** ***Department of Geography, University of California, Santa*** ***Barbara*** Session Chair: Gerald Friedland
9.30 – 10.00 a.m.	**Coffee Break**
10.00 – 12.00 a.m.	**Session 2**

Parallel Session 1 (GB A) — **Special Session: Semantic Analysis of Tactical Chat**

Military Textual Analysis and Chat Research
Emily W. Medina

DoD Collaboration and Chat Systems: Current Status and Way Ahead
LorRaine T. Duffy

Tactical Situation Assessment Technologies (TSAT)
Emily W. Medina and LorRaine T. Duffy

Topic Detection and Extraction in Chat
Paige H. Adams and Craig H. Martell

Parallel Session 2 (GB B) — **Multimedia Session 1**
Session Chair: Yan Liu

Semantics in Digital Photos: A *Contenxtual* Analysis
Pinaki Sinha and Ramesh Jain

S_3G: A Semantic Sequence State Graph for Indexing Spatio-temporal Data – A Tennis Video Database Application
Mitesh Naik, Vani Jain, and Ramazan S. Aygun

The Semantic Clustering of Images and Its Relation with Low Level Color Features
Raquel E. Patiño-Escarcina and Jose Alfredo Ferreira Costa

An Effective Multi-concept Classifier for Video Streams
Shu-Ching Chen, Mei-Ling Shyu, and Min Chen

Disambiguating Sounds through Context
Maria E. Niessen, Leendert van Maanen, and Tjeerd C. Andringa

Parallel Session 3 (GB C) — **Systems & Applications**
Session Chair: Ramazan Aygun

Exploiting Semantics for Personalized Story Creation
Mark D. Wood

IKHarvester – Informal eLearning with Semantic Web Harvesting
Jacek Jankowski, Adam Westerski, Sebastian Ryszard Kruk, Tadhg Nagle, and Jarosław Dobrzański

Technology Investment Radar: A Tool to Automatically Track Technology Maturation
Peter Z. Yeh, Alex Kass, and Daniel R. Farina

Towards Semantic Analysis of Conversations: A System for the Live Identification of Speakers in Meetings
Oriol Vinyals and Gerald Friedland

TcruziKB: Enabling Complex Queries for Genomic Data Exploration
Pablo N. Mendes, Bobby McKnight, Amit P. Sheth, and Jessica C. Kissinger

Semantic Approach to Middleware-Driven Run-time Context-Aware Adaptation Decision
Edwin J. Y. Wei and Alvin T. S. Chan

12.00 – 1.30 p.m.	**Lunch (on your own)**
1.30 – 3.30 p.m.	**Session 3**

Parallel Session 1 (GB A)
Semantic Web Session 1
Session Chair: Carlos Pedrinaci

Leveraging Folksonomies for Ontology Evolution in E-learning Environments
Carlo Torniai, Jelena Jovanović, Scott Bateman, Dragan Gašević, and Marek Hatala

Serving the Sky: Discovering and Selecting Semantic Web Services through Dynamic Skyline Queries
Dimitrios Skoutas, Dimitris Sacharidis, Alkis Simitsis, and Timos Sellis

A Unified Conceptual Model for Representation of Terminologies and References
of Terms across Data Repositories in Biomedicine
Martin Romacker, Angela Fahrni, and Thérèse Vachon

WSMO-Lite: Lowering the Semantic Web Services Barrier with Modular and Light-Weight Annotations
Jacek Kopecký and Tomas Vitvar

Parallel Session 2 (GB B)
Services & Software Engineering Session 1
Session Chair: TBD

Hybrid Semantic Web Service Retrieval: A Case Study with OWLS-MX
Matthias Klusch, Patrick Kapahnke, and Benedikt Fries

Ontology-Based Security Policies for Supporting the Management of Web Service Business Processes
Diego Zuquim Guimarães Garcia and Maria Beatriz Felgar de Toledo

On the Empirical Evaluation of Semantic Web Service Approaches: Towards Common SWS Test Collections
Ulrich Küster and Birgitta König-Ries

Deployed Semantic Services for the Common User of the Web: A Reality Check
Matthias Klusch and Xiguo Zhing

Combining Domain-Driven Approach with Requirement Assets
for Networked Software Requirements Elicitation
Wei Liu, Ke-Qing He, Kui Zhang, and Jian Wang

Parallel Session 3 (GB C)
Knowledge Engineering & Data Mining Session 1
Session Chair: Cliff Joslyn

Extracting and Exploring the Geo-temporal Semantics of Textual Resources
Bruno Martins, Hugo Manguinhas, and José Borbinha

Applications of Voting Theory to Information Mashups
Alfredo Alba, Varun Bhagwan, Julia Grace, Daniel Gruhl, Kevin Haas, Meenakshi Nagarajan, Jan Pieper, Christine Robson, and Nachiketa Sahoo

A New Content-Based Model for Social Network Analysis
Paola Velardi, Roberto Navigli, Alessandro Cucchiarelli, and Fulvio D'Antonio

3.30 – 4.00 p.m.	**Coffee Break**
4.00 – 5.30 p.m.	**Session 4**

Parallel Session 1 (GB A)
Semantic Web Session 2
Session Chair: Elena Simperl

Efficient Selection and Integration of Data Sources for Answering Semantic Web Queries
Abir Qasem, Dimitre a. Dimitrov, and Jeff Heflin

Semantic Search Meets the Web
Miriam Fernandez, Vanessa Lopez, Marta Sabou, Victoria Uren, David Vallet, Enrico Motta, and Pablo Castells

Using Semantics for News Navigation
Walter Kasper, Jörg Steffen, and Yajing Zhang

Wikipedia in Action: Ontological Knowledge in Text Categorization
Maciej Janik and Krys J. Kochut

Robust Disambiguation of Web-Based Personal Names
Ying Chen, James Martin, and Martha Palmer

Parallel Session 2 (GB B)
Multimedia Session 2
Session Chair: Yan Liu

Optimal Consensus Intuitive Hand Gesture Vocabulary Design
Helman I. Stern, Juan P. Wachs, and Yael Edan

Dimensionality Reduction for Descriptor Generation in Rushes Editing
Yang Liu, Yan Liu, and Keith C. C. Chan

Do These News Videos Portray a News Event from Different Ideological Perspectives?
Wei-Hao Lin and Alexander Hauptmann

New Real-Time Approaches for Video-Genre-Classification Using High-Level Descriptors and a Set of Classifiers
Ronald Glasberg, Sebastian Schmiedeke, Martin Mocigemba, and Thomas Sikora

Parallel Session 3 (GB C)
Natural Language Processing Session 2
Session Chair: Iryna Gurevych

ASKNet: Creating and Evaluating Large Scale Integrated Semantic Networks
Brian Harrington and Stephen Clark

Annotating an Extension Layer of Semantic Structure for Natural Language Text
Yulan Yan, Yutaka Matsuo, Mitsuru Ishizuka, and Toshio Yokoi

Improving Verb Sense Disambiguation with Automatically Retrieved Semantic Knowledge
Dmitriy Dligach and Martha Palmer

Exploring Similarity Measures for Context-Aware User Interaces
Melanie Hartmann, Torsten Zesch, Max Mühlhäuser, and Iryna Gurevych

Discourse Connective Argument Identification with Connective Specific Rankers
Robert Elwell and Jason Baldridge

6.00 – 9.00 p.m.
Ballroom DE

Keynote Address:
"Privacy, Regulations, and Trust: What you need to make your technology successful."
John Toebes, Chief Architect, Media Solutions Group
Cisco

7.00 – 8.00 a.m.	**Breakfast**
8.30 – 9.30 a.m. Ballroom DE	**Keynote Address:** **"Semantics on the Web: How do we get there?"** *Raghu Ramakrishnan, Chief Scientist for Audience,* *Yahoo! Research* Session Chair: Jaideep Srivastava
9.30 – 10.00 a.m.	**Coffee Break**
10.00 – 11.30 a.m.	**Academic Panel**
Ballroom DE	**"Semantic Computing: Issues, Challenges, and Future** **Research Directions"**
Moderator: Shu-Ching Chen, Florida International University	*Panelists:* Arif Ghafoor, Purdue University, USA Eduard Hovy, University of Southern California, USA C. V. Ramamoorthy, University of California Berkeley, USA Phillip Sheu, University of California, Irvine, USA
11.30 – 1.30 p.m.	**Lunch (on your own)**
1.30 – 3.30 p.m.	**Session 5**
Parallel Session 1 (GB A)	**Semantic Web Session 3** Session Chair: Alkis Simitsis
	Semantic Integration of Peer to Peer Systems: A Doxastic Approach *Guido Vetere, Fabrizio Venditti, and Alessandro Faraotti*
	Non-parametric Statistical Learning Methods for Inductive Classifiers in Semantic Knowledge Bases *Claudia d'Amato, Nicola Fanizzi, and Floriana Esposito*
	Semantic-Based Fuzzy Reasoning for Compliance Auditing *Frederick Yip, Alfred Ka Yiu Wong, Nandan Parameswaran, and* *Pradeep Ray*
	An Oddly-Positioned Position Paper on Context and Ontology *Simone Santini*
	Review and Alignment of Tag Ontologies for Semantically-Linked Data in Collaborative Tagging Spaces *Hak Lae Kim, Alexandre Passant, John G. Breslin, Simon Scerri,* *and Stefan Decker*
Parallel Session 2 (GB B)	**Services & Software Engineering Session 2** Session Chair: TBD
	Resolving Multiperspective Requirements Traceability through Ontology Integration *Namfon Assawamekin, Thanwadee Sunetnanta, and Charnyote* *Pluempitiwiriyawej*
	Embedded Modules for Speaker Classification *Michael Feld*
	Analysis of Effects- and Preconditions-Based Service Representation in Ubiquitous Computing Environments *Aitor Urbieta, Ekain Azketa, Inma Gomez, Jorge Parra, and Nestor* *Arana*

An Ontology-Based Integrated Assessment Framework for High-Assurance Systems
Raymond Paul, I-Ling Yen, Farokh Bastani, Jing Dong, Wei-Tek Tsai, Krishna Kavi, Arif Ghafoor, and Jaideep Srivastava

Mediatability: Estimating the Degree of Human Involvement in XML Schema Mediation
Karthik Gomadam, Ajith Ranabahu, Lakshmish Ramaswamy, Amit P. Sheth, and Kunal Verma

Parallel Session 3 (GB C) **Knowledge Engineering & Data Mining Session 2**
Session Chair: Andrew Schein

A Concept Based Indexing Approach for Document Clustering
Simona Barresi, Samia Nefti, and Yacine Rezgui

Sentence Induced Transformations in "Conceptual" Spaces
Agnese Augello, Giorgio Vassallo, Salvatore Gaglio, and Giovanni Pilato

Exploiting Term Relations for Semantic Hierarchy Construction
Cliff Joslyn, Patrick Paulson, and Karin Verspoor

Exploiting Semantic Query Context to Improve Search Ranking
Ziming Zhuang and Silviu Cucerzan