# ICSC 2011 Conference Program

## Monday September 19

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<th>Time</th>
<th>Barnes</th>
<th>Lobby</th>
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<td>8:00 – 8:50</td>
<td>Breakfast/Registration</td>
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<td>8:50 – 9:00</td>
<td>Welcome</td>
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<td>9:00 – 10:00</td>
<td>Keynote: Mihaela van der Schaar</td>
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<td>10:30 – 12:30</td>
<td>Parallel Session: Industry I</td>
<td>Parallel Session: Semantic Web I</td>
<td>Parallel Session: NLP I</td>
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<td>12:30 – 14:00</td>
<td>Topic Presentations by Craig Dietrich and Ed Hovy</td>
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<td>14:00 – 16:00</td>
<td>Parallel Session: Industry II</td>
<td>Parallel Session: Semantic Web II</td>
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<td>18:00 – 19:30</td>
<td>Reception/Poster/Demo Session</td>
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<td>19:30 – 20:30</td>
<td>Silicon Valley Semantic Technology Group Meetup “Semantic Technology: Good for Business, bad for privacy?”</td>
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## Tuesday September 20

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<td>Banquet Topic Presentations by Mark Musen and Jan Pedersen</td>
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# Wednesday September 21

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- **Breakfast**
- **Workshop on Semantic Annotation for Computational Linguistic Resources**
- **Workshop on Semantic Multimedia**
- **Workshop on Semantics, Security, and Privacy**
- **Coffee Break**
- **Workshop Ontologies for Systems Integration and Standards**
- **Workshop on Semantic Annotation for Computational Linguistic Resources**
- **Workshop on Semantic Multimedia**
- **Workshop on Semantics, Security, and Privacy**
- **Lunch**
- **Government Panel: Chairs – Evelyne Viegas & David A. Evans**
- **Workshop on Semantic Annotation for Computational Linguistic Resources**
- **Government Panel: Chairs – Evelyne Viegas & David A. Evans**
- **Intra-disciplinary Workshop on Semantic Computing**
- **Workshop on Semantic Computing – Highlights of the Workshops and Complimentary Activities**
- **Coffee Break**
Monday September 19

9:00 – 10:00
Keynote: Mihaela van der Schaar
Finding it Now: Stream Mining in Real Time

10:30 – 12:30
Parallel Session: Industry I (Barnes)
Chair: Madirakshi Das
- Timothy Musgrove, Robin Walsh and Peter Ridge. Automated profiling of the balance of optimism and pessimism in online news content
- Masayuki Okamoto, Masaaki Kikuchi, Nayuko Watanabe, Takayuki Iida, Kenta Sasaki and Masanori Hattori. Semi-automatic Evaluation System for Supporting Term Extraction Application Development
- Kyle Richardson, Danny Bobrow, Cleo Condoravdi, Richard Waldinger and Amar Das. English Access to Structured Data
- David Bracewell, Marc Tomlinson, Ying Shi, Jeremy Bensley and Mary Draper. Who's playing well with others: Determining collegiality in text

Parallel Session: Semantic Web I (Lane)
Chair: Aalap Tripathy
- Wei Tai, John Keeney and D O'Sullivan. RESP: A Computer Aided OWL REasoner Selection Process
- Sudhir Agarwal. iBookmarks: Synthesis and Execution of Solution Templates for efficient Usage of recurring Web-Process Combinations
- Ning Li, Carlos Pedrinaci, Maria Maleshkova, Jacek Kopecky and John Domingue. A Framework for Automating the Invocation of Web APIs
- Maciej Dabrowski, Alexandre Passant and Keith Griffin. Real-time integration of Semantic Web data in distributed enterprise systems: A state of the art
- Le Duy Ngan and Rajaraman Kanagasabai. Dynamic Discovery of Complex Constraint-based Semantic Web Services

Parallel Session: NLP I (Lyons)
Chair: Marco Rospocher
- André Kenji Horie and Mitsuru Ishizuka. Feature Distance-based Framework for Classification of Low-Frequency Semantic Relations
- Kirk Roberts and Sanda Harabagiu. Detecting New and Emerging Events from Textual Sources
- Alessio Leoncini, Fabio Sangiacomo, Chiara Peretti, Sonia Argentesi, Erik Cambria and Rodolfo Zunino. Semantic Models for Style-based Text Clustering
- Nicolai Erbs, Torsten Zesch and Iryna Gurevych. Link Discovery: A Comprehensive Analysis
- Yuxia Huang. A Latent Semantic Analysis-based Approach to Geographic Feature Categorization from Text
Monday September 19

14:00 – 16:00
Parallel Session: Industry II (Barnes)
Chair: Tim Musgrove

- Oliver Brdiczka and Victoria Bellotti. Identifying Routine and Telltale Activity Patterns in Knowledge Work
- Ivan Bedini, Benjamin Nguyen, Christopher Matheus, Peter Frederick Patel-Schneider and Aidan Boran. Transforming XML Schema to OWL Using Patterns
- Marian Nodine, Robert Grimshaw, Peter Haglich, Steven Wilder and Bryan Lyles. Computational Asset Description for Cyber Experiment Support using OWL
- Ioan Toma, Mihai Chezan, Raluca Brehar, Sergiu Nedevschi and Dieter Fensel. SIM, a Semantic Instrumentation and Monitoring solution for Large Scale Reasoning Systems

Parallel Session: Semantic Web II (Lane)
Chair: Vasileios Mezaris

- Aalap Tripathy, Suneil Mohan and Rabi Mahapatra. Optimizing a Semantic Comparator using CUDA-enabled Graphics Hardware
- Alper Bilge and Huseyin Polat. An Improved Profile-based CF Scheme with Privacy
- Jing Zhao, Karthik Gomadam and Viktor Prasanna. Predicting Missing Provenance using Semantic Associations in Reservoir Engineering
- Pramod Jagtap, Anupam Joshi, Tim Finin and Laura Zavala. Preserving Privacy in Context-Aware Systems
- Yang Yu, Yingjie Li and Jeff Heflin. Detecting Abnormal Semantic Web Data Using Semantic Dependency

14:00 – 16:00
Parallel Session: NLP II (Lyons)
Chair: Lucy Huang

- Peter Adolphs, Martin Theobald, Ulrich Schäfer, Hans Uszkoreit and Gerhard Weikum. YAGO-QA: Answering Questions by Structured Knowledge Queries
- Or Biran and Owen Rambow. Identifying Justifications in Written Dialogs
- Sucheta Ghosh, Sara Tonelli, Giuseppe Riccardi and Richard Johansson. End-to-End Discourse Parser Evaluation
- Richard Eckart De Castilho and Iryna Gurevych. Semantic Service Retrieval based on Natural Language Querying and Semantic Similarity
- Giovanni Pilato, Agnese Augello and Salvatore Gaglio. A Modular Architecture for Adaptive ChatBots
Monday September 19
16:15 – 18:00
Boaster Session (Barnes)
All poster and demo presenters will give 3 minute mini-presentations advertising their poster.

18:00 – 19:30
Poster/Demo Session (Lobby)
- Daniel Bauer and Owen Rambow. Increasing Coverage of Syntactic Subcategorization Patterns in FrameNet using Verbnet
- Hamid Mousavi, Deirdre Kerr and Markus Iseli. A New Framework for Textual Information Mining over Parse Trees
- Xinyu Dai, Jinzhu Jia, Laurent El Ghaoui and Bin Yu. SBA-term: Sparse Bilingual Association for Terms
- Ekaterina Buyko and Udo Hahn. Generating Semantics for the Life Sciences via Text Analytics
- Minhua Huang and Robert M. Haralick. Developing a Probabilistic Graphic Model for Identifying Semantic Patterns in Texts
- Sara Tily, Marguerite C. Murphy, Omkar Dangat and Christopher D. Smith. GO Visual Browser
- Yiannos A. Stathopoulos and Brian Harrington. OMEX: Software for Mining Mathematical Expression Semantics from Scientific Documents
- Duy-Dinh Le, Thanh Duc Ngo and Shin’ichi Satoh. NII-KAORI-PERSON-SEARCH: A General Framework for Indexing and Retrieving People’s Appearance In Large Video Archives
- Nitin Madnani. iBLEU: Interactively Debugging & Scoring Statistical Machine Translation System
- Dumitru Roman, Patrick Maué, Miha Grcar, Iker Larizgoitia, Francois Tertre and Ioan Toma. ENVISION Platform

19:30 – 20:30
The Silicon Valley Semantic Technology Group Meetup “Semantic Technology: Good for Business, bad for privacy?” (Barnes)
Host: Peter Berger, Alitora Systems
Participants: Gerald Friedland, ICSI Berkeley  Nicholas Weaver, ICSI Berkeley
Tuesday September 20

9:00 – 10:00
Keynote: Martha Palmer
Going beyond shallow semantics

10:30 – 12:00
Industry Panel (Barnes)
Chair: Mark Wood
Participants:
Ralph Hodgson, Chief Technical Officer, TopQuadrant
Natasa Milic-Frayling, Principal Researcher, Microsoft Research Cambridge
Kurt Rohloff, Scientist, BBN
Amit Sheth, Professor, Wright State University

13:00 – 16:00
Parallel Session: Semantic Multimedia (Barnes)
Chair: Kevin Page
- Xia Wang. A Web Coverage Ontology for Geospatial Web Applications
- Vasileios Mezaris, Panagiotis Sidiropoulos and Ioannis Kompatsiaris. Improving interactive video retrieval by exploiting automatically-extracted video structural semantics
- Duy-Dinh Le and Shin'Ichi Satoh. Summarizing Large News Video Archives by Event Ranking
- Duy-Dinh Le and Shin'Ichi Satoh. A Comprehensive Study of Feature Representations for Semantic Concept Detection
- E M. Linking Computer Vision with off-the-shelf Accelerometry through Kinetic Energy for Precise Localization
- Jaeyoung Choi and Gerald Friedland. Data-Driven vs Semantic-Technology-Driven Tag-Based Video Location Estimation

Parallel Session: Mixed Topics in Semantic Computing (Lane)
Chair: Oliver Brdiczka
- Jeffrey Partyka and Latifur Khan. Content-Based Geospatial Schema Matching Using Semi-Supervised Geosemantic Clustering and Hierarchy
- Jicheng Fu, Wei Hao, Farokh Bastani and I-Ling Yen. Model-Driven Development: Where Does the Code Come From?
- E M. Enhancing Context Awareness with Activity Recognition and Radio Fingerprinting
- Uthayasanker Thayasivam and Prashant Doshi. On the Utility of WordNet for Ontology Alignment: Is it Really Worth It?
- Alan Keller Gomes and Maria Da Graça Pimentel. Social Interactions Representation as Users Behavioral Contingencies and Evaluation in Social Networks
- Brian Harrington and Pia-Ramona Wojtynnek. Creating a Standardized Markup Language for Semantic Networks
Tuesday September 20
16:15 – 18:15
Parallel Session: Industry III (Barnes)
Chair: Maria da Graca Pimentel
  - David Ostrowski. Predictive Semantic Social Media Analysis
  - Oliver Brdiczka. Ubiquitous Semantics: how to create and navigate a Personal Semantic Network
  - David Lehavi, Omer Barkol and Sagi Schein. Visibly Pushdown Languages for a GUI Parsing Application with Probabilistic Lexer
  - Madirakshi Das and Alexander Loui. Detecting Recurring Themes in Personal Media Collections
  - Benoit Christophe. Searching the ‘Web of Things’

Parallel Session: Semantic Web III (Lane)
Chair: Giovanni Pilato
  - Sara Tonelli, Marco Rospocher, Emanuele Pianta and Luciano Serafini. Boosting collaborative ontology building with key-concept extraction
  - Christopher Ochs, Tian Tian, James Geller and Soon Ae Chun. Google Knows Who Is Famous Today - Building an Ontology From Search Engine Knowledge and DBpedia
  - Svetlin Bostandjiev, John O'Donovan, Christopher Hall, Brynjar Gretarsson and Tobias Hollerer. WiGipedia: A Tool for Improving Structured Data in Wikipedia
  - Kevin Page, Alex Frazer, Bart Nagel, Kirk Martinez and David De Roure. Semantic Access to Sensor Observations through Web APIs
  - Andre Freitas, João Gabriel Oliveira, Edward Curry and Sean Oriain. A Multidimensional Semantic Space for Data Model Independent Queries over RDF Data
Wednesday September 21

12:30 – 13:45
Government Panel on the Future of Semantic Computing (Barnes)
Co-chairs: David Evans and Evelyne Viegas

Participants:

Participants:
Sherri de Coronado, National Institute of Health (NIH)
Alan J. Goldschen, Department of Defense (DoD)
Vasant Honavar, National Science Foundation (NSF), Information Integration and Informatics Program Division of Information & Intelligent Systems Computer Science and Engineering Directorate
Paul Keller, National Aeronautics and Space Administration (NASA)
Ram Siram, National Institute of Standards and Technology (NIST)

Abstract: After a brief description of the current activities government agencies are engaged in today, the panel will explore questions on the future of semantic computing going over these aspects which are likely to be important enough to motivate those agencies to become pro-active partners such as helping creating resources, standards, or investing in large scale projects, building a strong international research community and portfolio in semantic computing.

For workshops please see individual program announcements