

Dear all,

We would like to bring to your attention the upcoming 3rd International Conference on Geospatial Semantics (GeoS 2009) that will be held in Mexico City, Mexico, on December 3-4, 2009. This year's conference builds on the great success of the previous editions of the conference - GeoS 2005 and GeoS 2007 in late November (Mexico City, Mexico), where people from 28 countries and 5 continents have attended these conferences <http://www.geosco.org/>

The invited speakers include:

- Andrew U. Frank, Technical University of Vienna, Austria, and
- Pascal Hitzler, Wright State University, Ohio, USA.

This year we will also feature two tutorials: "OWL 2 Rules" and "Building a Web of Sensors". The technical program is included below. Complete information about the conference can be found at <http://www.geosco.org/geos2009/>. We hope that you will be able to attend and we look forward to your participation.
(Registration site: <http://www.geosco.org/geos2009/Registration.html/>)

Sergei Levashkin	Miguel Martinez	Krzysztof Janowicz	Martin Raubal
General Chair	Local Chair	PC Co-Chair	PC Co-Chair

3rd International Conference on Geospatial Semantics
(GeoS 2009)
Call for Participation

December 3-4, 2009
Mexico City, Mexico
<http://www.geosco.org/>

Geospatial semantics is an emerging research theme in the domain of geographic information systems and spatial databases. The third edition GeoS 2009 aims at providing a forum for the exchange of state-of-the-art research results in the areas of modeling and processing of geospatial semantics. Geospatial semantics play an important role for next-generation spatial databases and geographic information systems, as well as specialized geospatial web services. This conference traditionally brings together researchers whose expertise will address issues such as:

- Theories for geospatial semantic information
- Formal representations of geospatial data
- Models and languages for geoontologies
- Alignment and integration of geoontologies
- Integration of semantics into spatial query processing
- Spatial information retrieval
- Ontology-driven GIS
- Geospatial Semantic Web
- Multicultural aspects of spatial knowledge
- Cognitive aspects of geospatial semantics
- Measuring semantic similarity between spatial datasets
- Representing context for geospatial semantic information

- Semantic Sensor Web
- Ontology-based visualization of geospatial data
- Conceptual models of dynamic geospatial environments
- Personalization of geospatial semantic services

GeoS 2009 will have 2 invited speakers, 10 research paper presentations, poster presentations, 2 tutorials, and a panel.

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Invited Lectures
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- * Andrew U. Frank, Technical University of Vienna, Austria
- * Pascal Hitzler, Wright State University, Ohio, USA.

DAY BEFORE

WEDNESDAY 2 DECEMBER 2009 (MULTIPLE USE ROOM)

18:00-20:00 Registration, Ice Break

1st DAY

THURSDAY 3 DECEMBER 2009 MORNING (MULTIPLE USE ROOM)

7:00-9:00 Registration, Coffee, Breakfast

9:00-9:15 Opening Ceremony

9:15-10:15 **Keynote 1.** *Multi-cultural aspects of spatial knowledge*
Andrew U. Frank (Austria)

10:15-10:30 Coffee Break

10:30-12:30 **Tutorial 1.** *OWL 2 Rules* Pascal Hitzler (USA), Markus Krötzsch, and Sebastian Rudolph (Germany)

12:30-14:00 Lunch

14:00-15:00 **Session 1. Foundations of Geo-Semantics**

14:00-14:30 *A Functional Ontology of Observation and Measurement*
Werner Kuhn (Germany)

14:30-15:00 *The Case for Grounding Databases* Simon Scheider (Germany)

15:00-15:15 Coffee Break

15:15-16:15 **Session 2. Formal Representation of Geospatial Data**

15:15-15:45 *Towards a Semantic Representation of Raster Spatial Data*
Rolando Quintero, Miguel Torres, Marco Moreno, and Giovanni Guzman (Mexico)

15:45-16:15 *Bottom-Up Gazetteers: Learning from the Implicit Semantics of Geotags* Carsten Kessler, Patrick Maue, Jan Torben Heuer, and Thomas Bartoschek (Germany)

16:15-16:30 Coffee Break

16:30-17:30 Session 3. Semantics-based Information Retrieval and Recommender Systems

16:30-17:00 *Ontology-based Integration of Sensor Web Services in Disaster Management* Grigori Babitski, Simon Bergweiler, Jorg Hoffmann, Daniel Schon, Christoph Stasch, and Alexander Walkowski (Germany)

17:00-17:30 *A Spatial User Similarity Measure for Geographic Recommender Systems* Christian Matyas and Christoph Schlieder (Germany)

19:00 Banquet

2nd DAY

FRIDAY 4 DECEMBER 2009 MORNING (MULTIPLE USE ROOM)

9:15-10:15 **Keynote 2.** *Towards Reasoning Pragmatics: State of the Art and Vision for the Semantic Web* Pascal Hitzler (USA)

10:15-10:30 Coffee Break

10:30-12:30 **Tutorial 2.** *Building a Web of Sensors* Arne Bröring and Christoph Stasch (Germany)

12:30-14:00 Lunch

14:00-15:00 Session 4. Integration of Semantics into Spatial Query Processing

14:00-14:30 *SPARQL Query Re-writing Using Paronymy Based Transformation Rules* Prateek Jain, Peter Z. Yeh, Kunal Verma, Cory A. Henson, and Amit P. Sheth (USA)

14:30-15:00 *iRank: Ranking Geographical Information by Conceptual, Geographic, and Topologic Similarity* Felix Mata (Mexico)

15:00-15:15 Coffee Break

15:15-16:15 Session 5. Geo-Ontologies and Applications

15:15-15:45 *Towards an Ontology for Reef Islands* Stephanie Duce (Spain)

15:45-16:15 *Narrative Geospatial Knowledge in Ethnographies: Representation and Reasoning* Chin-Lung Chang, Yi-Hong Chang, Tyng-Ruey Chuang, Dong-Po Deng, and Andrea Wei-Ching Huang (Taiwan)

16:15-16:30 Coffee Break

16:30-17:30 Discussion/Panel *Semantics and Pragmatics in GIS*

17:30-17:45 Closing Ceremony

FRIDAY 4 DECEMBER 2009 EVENING (FIRST FLOOR HALL - IN FRONT OF THE MULTIPLE USE ROOM)

18:00-20:00 Poster Session & Bar Service