

CALL FOR PAPERS

10th International Workshop on Uncertainty Reasoning for the Semantic Web

<http://c4i.gmu.edu/ursw/2014>

In conjunction with the
13th International Semantic Web Conference

**Riva del Garda, Italy
October 19-20, 2014**

You are invited to participate in the upcoming workshop on Uncertainty Reasoning for the Semantic Web (URSW), to be held as part of the 13th International Semantic Web Conference (ISWC) in October of 2014 at Fierecongressi SpA, Riva del Garda, Italy.

ISWC is a major international forum for presenting visionary research on all aspects of the Semantic Web. The Uncertainty Reasoning workshop is an exciting opportunity for collaboration and cross-fertilization between the uncertainty reasoning community and the Semantic Web / Linked Data community.

Effective methods for reasoning under uncertainty are vital for realizing many aspects of the Semantic Web vision, but the ability of current-generation web technology to handle uncertainty remains extremely limited. Thus, there is a continuing demand for uncertainty reasoning technology among Semantic Web researchers and developers, and the URSW workshop creates a unique opening to bring together two communities with a clear commonality of interest but limited history of interaction. By capitalizing on this opportunity, URSW could spark dramatic progress toward realizing the Semantic Web vision.

Audience

The intended audience for this workshop includes the following

- Researchers in uncertain reasoning technologies with interest in the Semantic Web.
- Semantic Web developers and researchers.
- People in the knowledge representation community with interest in the Semantic Web.
- Ontology researchers and ontological engineers.
- Web services researchers and developers with interest in the Semantic Web.
- Developers of tools designed to support semantic web implementation, e.g., Jena developers, Protégé developers, OWL-API developers...

Topic List

We intend to have an open discussion on any topic relevant to the general subject of uncertainty in the Semantic Web and Linked Data (including fuzzy theory, probability theory, and other approaches). Therefore, the following list should be just an initial guide.

- Syntax and semantics for extensions to Semantic Web / Linked Data languages to enable

representation of uncertainty

- Logical formalisms to support uncertainty in Semantic Web / Linked Data languages
- Probability theory as a means of assessing the likelihood that terms in different ontologies refer to the same or similar concepts
- Architectures for applying plausible reasoning to the problem of ontology mapping
- Using fuzzy approaches to deal with imprecise concepts within ontologies
- The concept of a probabilistic ontology and its relevance to the Semantic Web
- Best practices for representing uncertain, incomplete, ambiguous, or controversial information in the Semantic Web / Linked Data
- The role of uncertainty as it relates to web services and cloud computing
- Interface protocols with support for uncertainty as a means to improve interoperability among web services
- Uncertainty reasoning techniques applied to trust issues in the Semantic Web and Linked Data
- Existing implementations of uncertainty reasoning tools in the context of the Semantic Web and Linked Data
- Issues and techniques for integrating tools for representing and reasoning with uncertainty;
- The future of uncertainty reasoning for the Semantic Web and Linked Data
- We intend to have an open discussion on any topic relevant to the general subject of uncertainty in the Semantic Web and Linked Data (including fuzzy theory, probability theory, and other approaches).
- Therefore, the following list should be just an initial guide.

Important Dates

July 7	Paper submissions due
July 30	Paper acceptance notification
August 20	Camera-ready papers due
October 19-20	10th Workshop on Uncertainty Reasoning for the Semantic Web

Submission Details

The URSW will be accepting submissions of technical papers and position papers. Each submission will be evaluated for acceptability by at least three members of the Program Committee. Decisions about acceptance will be based on relevance to the above topic list, originality, potential significance, topicality and clarity. Since all accepted papers will be presented at the workshop, we require that at least one of the submitting authors must be a registered participant at the ISWC 2014 Conference, and committed to attend the URSW Workshop.

Submissions to the workshop are only accepted in electronic format and should be sent via the workshop's submission site: <https://www.easychair.org/account/signin.cgi?conf=ursw2014>. Papers must be formatted in the style of the Springer Publications format for Lecture Notes in Computer Science (LNCS). This is the very same format adopted by the ISWC 2014. For complete details, see Springer's Author Instructions (<http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>).

Technical papers submitted to the URSW Workshop **must not exceed 12 pages**, including figures and references. Submissions exceeding this limit will not be reviewed.

Position papers consist of a summary of ideas, projects, or any research efforts that are relevant to the URSW Workshop and **must not exceed 4 pages**.

Presentation and Publication

URSW 2014 will be a half-day workshop.

All papers accepted to the URSW will be presented during the workshop and published in the workshop proceedings. Authors of accepted technical papers will have 20 minutes to present their work, while authors of accepted position papers will have a 10-minute slot to share their ideas. After each presentation, 5 minutes will be allocated to questions from the audience. Both technical and position papers will be published in the URSW workshop proceedings, to be available after the ISWC 2014 conference.

In addition, extended and revised versions of selected technical papers accepted for presentation at the URSW 2014 will be eligible for participating in a “Journal of Data Semantics” special issue with the best ISWC 2014 workshop papers or in a joint post-proceedings book (“Uncertainty Reasoning for the Semantic Web IV”) with papers from the next editions of the URSW workshop.

Organizing Committee

- Fernando Bobillo - University of Zaragoza, Spain
- Rommel N. Carvalho - Brazil's Office of the Comptroller General / University of Brasília, Brazil
- Davide Ceolin - VU University Amsterdam, Netherlands
- Paulo C. G. Costa - George Mason University, USA
- Claudia d’Amato - University of Bari, Italy
- Nicola Fanizzi - University of Bari, Italy
- Kathryn Laskey - George Mason University, USA
- Kenneth J. Laskey – MITRE Corporation, USA
- Thomas Lukasiewicz – University of Oxford, UK
- Trevor Martin - University of Bristol, UK
- Matthias Nickles – DERI, National University of Ireland, Galway, Ireland
- Michael Pool - Vertical Search Works, Inc., USA

Program Committee

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- Paulo C. G. Costa - George Mason University, USA
- Fabio G. Cozman - Universidade de Sao Paulo, Brazil
- Claudia d’Amato - University of Bari, Italy
- Nicola Fanizzi - University of Bari, Italy
- Marcelo Ladeira - University of Brasilia, Brazil
- Kathryn B. Laskey - George Mason University, USA
- Kenneth J. Laskey - MITRE Corporation, USA
- Thomas Lukasiewicz - Oxford University, UK

- Trevor Martin - University of Bristol, UK
- Alessandra Mileo - DERI Galway, Ireland
- Matthias Nickles - National University of Ireland, Galway, Ireland
- Jeff Z. Pan - University of Aberdeen, UK
- Rafael Peñaloza, Technical University Dresden, Germany
- Michael Pool - Goldman Sachs, USA
- Livia Predoiu - University of Oxford, UK
- Guilin Qi - Southeast University, China
- Dave Robertson - University of Edinburgh, UK
- Daniel Sánchez - University of Granada, Spain
- Thomas Scharrenbach - Swiss Federal Institute WSL, Switzerland
- Giorgos Stoilos - National and Technical University of Athens, Greece
- Umberto Straccia – ISTI-CNR, Pisa, Italy
- Matthias Thimm - University of Koblenz-Landau, Germany
- Peter Vojtas – Charles University, Czech Republic

We are looking forward to seeing you in Riva del Garda!