

Call for Papers

I-SEMANTICS 2012:

8th International Conference on Semantic Systems

Graz, Austria, 5 - 7 September 2012

<http://www.i-semantic.at>

including

Call for Submissions

5th Linked Data Cup

Latest News:

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I-SEMANTICS proceedings published by ACM ICPS

Wolters Kluwer Germany main sponsor of I-SEMANTICS 2012

Important Dates (Research & Application Papers)

- **Abstract Submission Deadline (strict): April 2, 2012**
- **Paper Submission Deadline:** April 13, 2012
- **Notification of Acceptance:** May 7, 2012
- **Camera-Ready Paper:** June 4, 2012

Important Dates (I-Challenge Papers)

- **Paper Submission Deadline:** April 13, 2012
- **Notification of Acceptance:** May 7, 2012
- **Camera-Ready Paper:** June 4, 2012

Important Dates (Posters & Demo Papers & PhD Track)

- **Submission Deadline:** May 21, 2012
- **Notification of Acceptance:** June 18, 2012

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Hashtag for I-SEMANTICS 2012: #isem2012

Scope

I-SEMANTICS 2012 (www.i-semantic.at) is the 8th International Conference within the I-SEMANTICS series. I-SEMANTICS 2012 brings together both researchers and practitioners in the areas of Semantic Technologies, Linked Data and the Semantic Web in order to showcase cutting edge research, demonstrators and applications for the Corporate and Social Semantic Web.

I-SEMANTICS 2012 is proud to announce the new format “I-CHALLENGE”, which brings to you the 5th Linked Data Cup (formerly Triplification Challenge), the Best Paper Award and the Best Poster Award.

As in the past years the I-SEMANTICS Conference will be complemented by I-KNOW (www.i-know.at), the 12th International Conference on Knowledge Management, aiming to reflect the increasing importance and convergence of knowledge management and semantic systems.

Topics

As a conference aiming to bring together science and industry, I-SEMANTICS encourages scientific research and application-oriented contributions in the field of Semantic Technologies, Semantic Web and Linked Data. The topics of interest for this year’s conference include but are not limited to:

The Web of Data

- (Large scale) triplification of existing (structured) data
- Vocabularies, taxonomies and schemas for the Web of Data
- Querying, searching and browsing over the Web of Data
- Data integration and interlinking for the Web of Data
- User interaction and innovative visualizations for the Web of Data
- Languages, tools and methodologies for representing, managing and reasoning on the Web of Data
- (Mashup) applications utilizing (large scale) Linked Data resources
- Recommender systems making use of the Web of Data
- Integrating microposts into the Web of Data
- Linked Enterprise Data and (Open) Linked Government Data
- Connecting the Web of Data with real world sensor data
- Location-based services and mobile semantic applications

Quality of Semantic Data on the Web

- Provenance information for the Web of Data
- Large scale ontology inspection and repair
- Co-reference detection and dataset reconciliation
- Maintenance of Linked Data models
- Trust, privacy and security in Semantic Web applications

Corporate Semantic Web

- Corporate thesauri, business vocabularies, ontologies and rules

- Semantic business, e-commerce and m-commerce systems
- Semantic procurement for enterprises and governments
- Semantics, pragmatics and semiotics in organizations
- Enterprise trust and reputation management

Semantic Content Engineering

- Collaborative ontology engineering
- Ontology modularity, alignment and merging
- Ontology design patterns and life cycle management
- Ontology learning and knowledge acquisition
- Quality criteria for collaboratively generated semantic content
- Semantic annotation and tagging
- Making sense of microposts
- Semantic content management systems

Semantic Multimedia

- Semantic-driven multimedia applications
- Multimedia ontologies and infrastructures
- Content-based semantic multimedia analysis and data mining
- Semantic-driven multimedia indexing and retrieval
- Named entity recognition and disambiguation in multimedia documents
- Human-computer interfaces for multimedia data access
- Smart visualization and browsing of multimedia documents
- User-generated semantic metadata for multimedia documents

Studies, Metrics & Benchmarks

- Case studies of and benchmarks in semantic systems usage
- Evaluation perspectives, methods and Semantic Web research methodologies
- Technology assessment, acceptance/media choice theories
- Usability and user interaction with semantic technologies
- Applications with clear lessons learned or evaluations

(Linked) Data Ecosystems & Markets

- Economic foundations of data assets, markets and data crowd sourcing
- Business and governance models for data commerce
- Production principles and measures of data creation, curation and utilization
- Business models and economic impacts of Linked (Enterprise) Data and/or large scale semantic systems
- Case studies for sector-specific (Linked) Data strategies

I-SEMANTICS Submission Information

All accepted full papers and short papers of I-SEMANTICS 2012 will be published in the digital library of the ACM ICP series. **Please note:** Poster and Demo papers are planned to be published within CEUR-WS. Optional publication of PhD papers in CEUR-WS is under discussion.

Submissions must be original and must not have been submitted for publication elsewhere. Papers should follow the ACM ICPS guidelines for formatting (<http://www.acm.org/sigs/publications/proceedings-templates>) and must be submitted via the online submission system available at the conference website as PDF documents (other formats will not be accepted). For the camera-ready version, we will also need the source files (Latex, Word Perfect, Word).

The publication will be available under the following ISBN: **978-1-4503-1112-0**

Research/Application Papers

Research papers report on novel research and/or applications relevant to the topics of the conference. Submissions must be original and must not have been submitted for publication elsewhere. The number of pages of research papers is limited to 8 pages for full papers and 4 pages for short papers including references and an optional appendix.

Full and short papers should follow the ACM ICPS guidelines for formatting (<http://www.acm.org/sigs/publications/proceedings-templates>) and must be submitted via the online submission system available at the conference website as PDF documents (other formats will not be accepted). For the camera-ready version, we will also need the source files (Latex, Word Perfect, Word).

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Posters, Demos & PhD Track

The conference also particularly welcomes the submission of posters, demonstrations, and PhD track submissions. The **Posters, Demonstrations & PhD Track** complements the Research Paper Track and offers an opportunity for presenting late-breaking research results, ongoing research projects, and speculative or innovative work in progress.

The informal setting of the **Posters, Demonstrations & PhD Track** encourages presenters and participants to engage in discussions about the presented work. Such discussions can be invaluable inputs for the future work of the presenters, while offering participants an effective way to broaden their knowledge of the emerging research trends and to network

with other researchers. Poster and demo submissions should consist of a 2-3 page description that allows us to judge the quality of the presentation. Submissions to this track must be in the **Springer LNCS format** (<http://www.springer.com/computer/lncs/lncs+authors>), i.e. please do **NOT** use the ACM template here.

The objective of the **PhD Track** is to provide doctoral students with a forum to present and discuss their research projects with experienced researchers (“mentors”) and fellow students. It addresses PhD students at an early stage of their doctoral studies, who want to receive feedback from internationally recognized researchers. Ideally, participants will have a well-defined problem statement and precise questions to discuss with their mentor. Applicants should be PhD students (from any country), conducting ongoing research in the areas of semantic technologies, Linked Data and the Semantic Web.

PhD track submissions should consist of up to 1.500 words and contain the following:

- Name, affiliation and contact details of the PhD student
- Name(s) of the supervisor(s)
- Summary of the research project, including:
 - Problem: research questions, motivation, state of the art and relevance for the fields of Semantic Technologies, Linked Data and Semantic Web
 - Approach: (planned) approach and methodology
 - Current status / timeline: current status of the work and any results that have already been reached plus outlook to future work
- A list of key questions that the PhD student wants to discuss during the event

Submissions will be reviewed by experienced researchers; each submission will receive detailed feedback. The program committee will select participants who will give a short presentation about their research project during the I-SEMANTICS PhD Track. Main focus of the event is on discussion, support and solving open questions.

Important Dates (Posters & Demo Papers & PhD Track)

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I-CHALLENGE

For the first time in 2012 we will bring to you the I-CHALLENGE, consisting of the **Best Research/Application Paper Award**, the **Best Poster Award**, the **Best PhD Paper Award** and the **Linked Data Cup**. While the best paper will be selected by the program committee, the Best Poster will be voted by the conference audience via online voting. (Please expect more details for all the Best Paper Awards in the weeks to come.) Information on the Linked Data Cup can be found below:

Linked Data Cup 2012

The yearly organised **Linked Data Cup** (formerly Triplication Challenge) awards prizes to the most promising innovation involving linked data. Four different technological topics are addressed: *triplication*, *interlinking*, *cleansing*, and application *mash-ups*. The Linked Data Cup invites scientists and practitioners to submit novel and innovative ([5 star](#)) linked data sets and applications built on linked data technology.

Although more and more data is triplicated and published as RDF and linked data, the question arises how to **evaluate the usefulness of such approaches**. The Linked Data Cup therefore requires all submissions to include a concrete **use case and problem statement** alongside a solution (**triplicated data set, interlinking/cleansing approach, linked data application**) that showcases the usefulness of linked data. Submissions that can provide measurable benefits of employing linked data over traditional methods are preferred.

Note that the call is not limited to any domain or target group. We accept submissions ranging from **value-added business intelligence use cases** to **scientific networks** to the [longest tail of information domains](#). The only strict requirement is that the employment of linked data is **very well motivated and also justified** (i.e. we rank approaches higher that provide solutions, which could not have been realised without linked data, even if they lack technical or scientific brilliance).

Evaluation Criteria

The submissions will be initially evaluated with a well-known [five star ranking system](#).

Furthermore, entries will be assessed according to the extent to which they

1. motivate the relevancy of their use case for their respective domain;
2. justify the adequacy of linked data technologies for their solution;
3. demonstrate that all alternatives to linked data would have resulted in an inferior solution;
4. provide an evaluation that can measure the benefits of linked data

Topics

Ideas for topics include (but are not limited to):

- Improving traditional approaches with help of linked data
- Linked data use in science and education
- Linked data supported multimedia applications
- Linked data in the open source context
- Web annotation
- Generic applications
- Internationalization of linked data
- Visualization of linked data
- Linked government data
- Business models based on linked data
- Recommender systems supported by linked data
- Integrating microposts with linked data
- Distributed social web based on linked data
- Linked data sensor networks

Submission and Reviewing

Submissions to the Linked Data Cup will be reviewed by members of the Linked Data Cup Board and invited experts from the Linked Data community.

Submissions should consist of 4 pages and must be original and must not have been submitted for publication elsewhere. Papers should follow the ACM ICPS guidelines for formatting as accepted submissions will be published in the I-SEMANTICS 2012 proceedings in the digital library of the ACM ICP series. Please read [the submission page](#) for detailed information on how to submit.

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I-SEMANTICS Committee

Scientific Chair

- Harald Sack (Hasso-Plattner-Institute for IT Systems Engineering)

Program Chairs

- H. Sofia Pinto (Technical University of Lisbon)
- Valentina Presutti (Institute for Cognitive Science and Technology, Rome)

Track Chairs

- I-CHALLENGE:
 - Sebastian Hellmann (University of Leipzig)
 - Jörg Waitelonis (Hasso-Plattner-Institute for IT Systems Engineering)
- PhD Track Chair: Katrin Weller (Heinrich Heine University Düsseldorf)
- Poster & Demo Chair: Steffen Lohmann (University of Stuttgart)

Industry Chair

- Andreas Blumauer (Semantic Web Company)

Conference Chair

- Tassilo Pellegrini (Semantic Web Company / University of Applied Sciences St. Pölten, Austria)

Program Committee

Please go to: <http://i-semantic.tugraz.at/scientific-track/program-committee/>