



# Eighth IEEE International Conference on Semantic Computing (IEEE ICSC2014)



**June 16<sup>th</sup> – 18<sup>th</sup>, 2014**  
**Newport Beach, CA, USA**  
**<http://www.ieee-icsc.org/>**

## Call for Papers

### Important Dates

Workshop Proposals:  
Dec. 15<sup>th</sup>, 2013

Regular Paper & Short Paper  
Submission:  
March 1<sup>st</sup>, 2014 (*extended*)

Demo Paper & Poster Paper  
Submission:  
March 1<sup>st</sup>, 2014 (*extended*)

Industry Paper Submission:  
March 1<sup>st</sup>, 2014 (*extended*)

Conference:  
June 16<sup>th</sup>-18<sup>th</sup>, 2014

The field of Semantic Computing addresses the derivation of semantic information from content and the connection of semantics to knowledge, where "content" may be anything including structured data, video, audio, text, hardware, software, process, etc.

The Eighth IEEE International Conference on Semantic Computing (ICSC 2014) continues to foster the growth of a new research community. The conference builds on the success of the past ICSC conferences as an international forum for researchers and practitioners to present research that advances the state of the art and practice of Semantic Computing, as well as identifying emerging research topics and defining the future of the field. The event is located in Newport Beach, California at Hyatt Regency Newport Beach. The technical program of ICSC 2014 includes workshops, invited keynotes, paper presentations, panel discussions, industrial 'show and tells', demonstrations, and more. Submissions of high-quality papers describing mature results or ongoing work are invited.

The main goal of the conference is to foster the dialog between experts in each sub-discipline. Therefore we especially encourage submissions of work that is interesting to multiple areas, such as multimodal approaches.

Please refer to the conference website for further information: <http://www.ieee-icsc.org/>

### SUBMISSIONS

**Regular Papers, Short Papers, and Industry Papers.** Authors are invited to submit an 8-page (regular), 4-page (short), or 6-page (industry) technical paper manuscript in double-column IEEE format following the guidelines available on the ICSC2014 web page.

**Demonstration Papers and Posters.** Authors are invited to submit an 2-page (demonstration or poster) technical paper manuscript in double-column IEEE format following the guidelines available on the ICSC2014 web page.

**Workshops Proposals.** The organizing committee invites proposals for workshops to be held in conjunction with the conference. These will focus on specific topics of the main conference. More information is available on the ICSC2014 web page.

The Conference Proceedings will be published by IEEE Computer Society Press. Distinguished quality papers presented at the conference will be selected for publication in internationally renowned journals.

### Areas of interest include:

#### Semantics based Analysis

- Natural language processing
- Image and video analysis
- Audio, music, and speech analysis
- Data and web mining
- Behavior of software, services, and networks
- Services and networks
- Security
- Privacy
- Analysis of social networks

#### Semantic Integration

- Metadata and other description languages
- Database schema integration
- Ontology integration
- Interoperability and service integration
- Semantic programming languages and software engineering
- Semantic system design and synthesis

#### Applications using Semantics

- Big data
- Search engines and question answering
- Semantic web services
- Content-based multimedia retrieval and editing
- Context-aware networks of sensors, devices, and applications
- Devices and applications
- Digital library applications
- Machine translation
- Music description and meta-creation
- Medicine and Biology
- GIS systems and architecture

#### Semantic Interfaces

- Natural language interfaces
- Multimodal interfaces and mediation technology
- Human centered computing