

# Fourth IEEE International Conference on Semantic Computing IEEE ICSC2010

September 22<sup>nd</sup> – 24<sup>th</sup>, 2010; Pittsburgh, PA; USA

<http://www.ieee-icsc.org/>



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IEEE Computer Society

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## Call for Papers

The field of Semantic Computing addresses the derivation and matching of the semantics of computational content to that of naturally expressed user intentions in order to retrieve, manage, manipulate or even create content, where "content" may be anything including video, audio, text, processes, services, hardware, networks, etc.

The fourth IEEE International Conference on Semantic Computing (ICSC2010) 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 Pittsburgh, PA. The technical program of ICSC2010 includes workshops, invited keynotes, paper presentations, panel discussions, industrial "show and tells", demos, and more. Submissions of high-quality papers describing mature results or on-going 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.** Authors are invited to submit an 8-page technical paper manuscript in double-column IEEE format following the guidelines available on the ICSC2010 web page under "submissions".

**Demonstration Papers.** Authors are invited to submit a 2-page technical paper manuscript in double-column IEEE format following the guidelines available on the ICSC2010 web page under "demonstrations".

**Workshops and Special Sessions.** The organizing committee invites proposals for workshops and special sessions to be held in conjunction with the conference. These will focus on specific topics of the main conference. More information is available on the ICSC2010 web page.

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

### Areas of interest include:

#### Semantics based Analysis

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

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

#### Semantic Interfaces

- Natural language interfaces
- Multimodal interfaces
- Human centered computing

## Important Dates

Special Session Proposals:  
Feb 22<sup>nd</sup>, 2010

Workshop Proposals:  
Feb 22<sup>nd</sup>, 2010

Regular Paper Submission:  
May 3<sup>rd</sup>, 2010

Demo Descriptions:  
May 3<sup>rd</sup>, 2010

Conference:  
September 22<sup>nd</sup>-24<sup>th</sup>, 2010

