



## Call for Papers

# Fifth International Conference on Semantic Technologies for Intelligence, Defense, and Security - STIDS 2010

*George Mason University, Fairfax, VA, USA*

*Oct 26-29, 2010*

<http://c4i.gmu.edu/STIDS10/>

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The 5<sup>th</sup> International Conference on Semantic Technologies for Intelligence, Defense, and Security (STIDS 2010) will be held in October of 2010 at the recently inaugurated [Mason Inn Conference Center](#). A classified session for those with TS/SCI clearances only will be held on October 29 at the National Security Agency in Ft. Meade, MD.

STIDS provides a forum for academia, government and industry to share the latest research on semantic technology for defense, intelligence and security applications. Formerly known as Ontology for the Intelligence Community (OIC), the conference is being broadened in scope to encompass a broad range of problems in defense, intelligence and security. Semantic technology is a fundamental enabler to achieve greater flexibility, precision, timeliness and automation of analysis and response to rapidly evolving threats.

## **AUDIENCE**

The conference is an opportunity for collaboration and cross-fertilization between researchers and practitioners of semantic-based technologies with particular experience in the problems facing the Intelligence, Defense, and Security communities. It will feature invited talks from prominent ontologists and recognized leaders from the target application domains.

To facilitate interchange among communities with a clear commonality of interest but little history of interaction, STIDS will host two separate tracks. The **Research Track** will showcase original, significant research on semantic technologies applicable to problems in intelligence, defense or security. Submissions to the research track are expected to clearly present their contribution, demonstrate its significance, and show the applicability to problems in the target applications domain. The **Applications Track** provides a forum for presenting implemented semantic-based applications to intelligence, defense, or security, as well as to discuss and evaluate the use of semantic techniques in these areas. Of particular interest are comparisons between different technologies or approaches and lessons learned from applications. By capitalizing on this opportunity, STIDS could spark dramatic progress toward transitioning semantic technologies from research to the field.

## **TOPIC LIST**

Both tracks welcome the submission of papers on semantic technologies applied to the fields of Intelligence, Defense, and Security. We are especially interested in papers on the following topics:

- Creating an interoperable suite of public-domain semantic technology/ontologies relevant to intelligence, defense, and security covering areas such as:



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- Biology and health
- Computer network operations (defense, exploitation, counter-attack)
- Conditions that foster or inhibit outbreak of violence
- Course-of-action planning
- Emergency response
- Ethnicity, religion, culture and politics
- Human factors
- Infrastructure protection
- Information sharing
- Intelligence analysis
- International law
- Predictive analysis
- Resiliency
- Risk analytics
- Social networks
- Spatial and temporal phenomena
- Vulnerability assessment
- Ontologies and reasoning under conditions of uncertainty
- Semantic technology and ontological Issues related to:
  - Source credibility and evidential pedigree
  - Use of sensing devices including security, e.g. global infrastructure grid (GIG), images and intelligence collection in general
- Usability issues relating to semantic technology
- Best practices in ontological engineering

## SUBMISSION DETAILS

Both tracks will accept submissions of technical 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. Because all accepted papers are to be presented at the conference, we require that at least one of the submitting authors must be a registered participant committed to attend STIDS 2010.

Submissions are accepted only in electronic format and should be sent via the conference's submission site: <http://www.easychair.org/conferences/?conf=stids2010>. Papers must be formatted in the style of the Springer Publications format for Lecture Notes in Computer Science (LNCS). For complete details, see Springer's Author Instructions (<http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>).

Technical papers must not exceed 8 pages, including figures. Submissions exceeding this limit will not be reviewed. In addition, papers that, at the time of submission, are under review for or have already been published in or accepted for publication in a journal or another conference will not be accepted to the STIDS conference. All papers must be unclassified and suitable for release in a public forum.

## IMPORTANT DATES

August 17	Paper submissions due
September 14	Paper acceptance notification
October 5	Camera-ready papers due
October 19	Presentations due
October 27	5th STIDS



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### PRESENTATION AND PUBLICATION

All papers accepted to either track in STIDS 2010 will be presented during the conference and published in the conference proceedings, which will be available as a separate publication after the Conference.

### SCIENTIFIC COMMITTEE (alphabetical order)

- Werner Ceusters University at Buffalo
- Paulo Costa George Mason University
- Tim Darr Knowledge Based Systems, Inc.
- Katherine Goldier NIC, Inc.
- Kathleen Stewart Hornsby University of Iowa
- Kathryn Laskey George Mason University
- Robert Latiff George Mason University
- Nancy Lawler US Department of Defense
- Kevin Lynch CIA
- Dan Maxwell KaDSci, Inc.
- Leo Obrst MITRE Corporation
- Robert Schrag Global Infotek, Inc.
- David Schum George Mason University
- Marvin Simpson Optech, Inc.
- Barry Smith NCOR, University at Buffalo
- Gheorghe Tecuci George Mason University
- Andreas Tolk Old Dominion University
- Duminda Wijesekera George Mason University
- Syed Abbas Zaidi George Mason University

### ORGANIZING COMMITTEE

General Chairs:

- Paulo Costa, George Mason University
- Kathryn Laskey, George Mason University

Scientific Committee Chair:

- Terry Janssen, Lockheed Martin Corporation

We look forward to seeing you in Fairfax!