



CALL FOR PAPERS

Eighth International Conference on Semantic Technologies for Intelligence, Defense, and Security (STIDS 2013)

George Mason University, Fairfax, VA, USA
Institute for Defense Analyses, Alexandria, VA, USA
November 12–15, 2013
<http://stids.c4i.gmu.edu>
<mailto:stids@c4i.gmu.edu>

The Eighth International Conference on Semantic Technologies for Intelligence, Defense, and Security (STIDS 2013) will be held in November 2013 at the comfortable facilities of the [Mason Inn Conference Center](#). The main conference will be held on November 13–14, with a tutorial session on November 12 and a classified session at the Institute for Defense Analyses for those with TS/SCI clearances only on November 15.

STIDS provides a forum for academia, government, and industry to share the latest research on semantic technology for defense, intelligence, and security applications. Semantic technology is a fundamental enabler to achieve greater flexibility, precision, timeliness, and automation of analysis and response to rapidly evolving threats.

Audience

STIDS 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 semantic technology researchers 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 and demonstrate its significance to the target application domains. The *Applications Track* provides a forum for presenting implemented semantic-based applications to intelligence, defense, or security, as well as for discussing and evaluating 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 technologies and ontologies relevant to intelligence, defense, and security covering areas such as:
 - Biology and health
 - Command and Control (C2) and Situation Awareness (SA)
 - Conditions that foster or inhibit outbreak of violence
 - Controlled substance interception
 - Course-of-action planning
 - Cyberspace: defense, exploitation, and counter-attack
 - Emergency response
 - Ethnicity, religion, culture, and politics
 - Financial analysis
 - Human factors
 - Infrastructure protection
 - Information sharing
 - Intelligence collection, analysis, and dissemination
 - International law
 - Intelligence, Surveillance, and Reconnaissance (ISR)



- Money laundering
 - Predictive analysis
 - Resiliency
 - Risk analysis
 - Science and Technology (S&T)
 - 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 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 attending STIDS 2013.

Submissions are accepted only in electronic format and must closely follow the US Letter version of the IEEE format for conference proceedings. For complete details and to download L^AT_EX and MS Word templates, choose the US Letter size from [the IEEE's Manuscript Template webpage](#). Technical papers must have between six and eight pages, including figures. Submissions outside 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.

Submissions for the general session must be unclassified and releasable in a public



forum. They should be sent via [the conference's submission site](#). Details on submissions for the classified session will be posted on Intelink.

Important Dates

| | |
|----------------|-------------------------------|
| August 14 | Paper submission deadline |
| September 18 | Paper acceptance notification |
| October 2 | Early bird rates end |
| October 16 | Camera-ready papers due |
| November 6 | Presentations due |
| November 12–15 | STIDS 2013 Conference |

Program Committee

- Stephen Allen, Semantic Research, Inc.
- Carl Andersen, Raytheon BBN Technologies
- Robert Battle, Amazon.com
- Rommel Carvalho, George Mason University
- Werner Ceusters, SUNY at Buffalo
- Suzanne Collier, Raytheon BBN Technologies
- Paulo Costa, George Mason University
- Mike Dean, Raytheon BBN Technologies
- Jody Des Roches, Joint Warfare Analysis Center
- Ian Emmons, Raytheon BBN Technologies
- Matt Fisher, Progeny Systems Corporation
- Katherine Goodier, L-3
- Mark Greaves, Pacific Northwest National Laboratory
- Richard Haberlin
- Brian Haugh, IDA
- John Hebler, University of Maryland, Baltimore County
- Terry Janssen, SAIC
- Greg Joiner, Raytheon BBN Technologies
- Mieczyslaw Kokar, Northeastern University
- Dave Kolas, Raytheon BBN Technologies
- Kathryn Laskey, George Mason University



- Nancy Lawler, U.S. Department of Defense
- William Mandrick, Data Tactics Corporation
- Daniel Maxwell, KaDSci, LLC
- Dave Mireles, Raytheon BBN Technologies
- Leo Obrst, MITRE
- Mary Parmelee, MITRE Corporation
- Andrew Perez-Lopez, Opower
- Plamen Petrov, Raytheon BBN Technologies
- Doug Reid, Google
- Joe Rockmore, cyladian technology consulting
- Dorene Ryder, Raytheon BBN Technologies
- Barry Smith, SUNY Buffalo
- Tony Stein, Raytheon BBN Technologies
- Gheorghe Tecuci, George Mason University
- Andreas Tolk, Old Dominion University - College of Engineering
- Brian Ulicny, VISTology, Inc.
- Andrea Westerinen, SAIC
- Duminda Wijesekera, George Mason University

Organizing Committee

| | |
|---------------------------|--|
| General Chair: | Paulo Costa, George Mason University |
| Technical Chairs: | Ian Emmons, Raytheon BBN Technologies Kathryn Laskey, George Mason University |
| Publicity Chair: | William Mandrick, Data Tactics Corporation |
| Classified Session Chair: | Brian Haugh, Institute for Defense Analyses |

We look forward to seeing you in Fairfax!