



## CALL FOR PAPERS

### Ninth International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2014)

George Mason University, Fairfax, VA, USA  
Institute for Defense Analyses, Alexandria, VA, USA  
November 18–21, 2014

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

<mailto:stids@c4i.gmu.edu>

The 9<sup>th</sup> International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2014) will be held in November 2014 at Dewberry Hall in the Johnson Center. The main conference will be held on November 19–20, with a tutorial session on November 18 and a classified session at a venue to be announced for those with TS/SCI clearances on November 21.

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.

### Conference Theme

This year the STIDS theme will be *semantics in support of collaboration*. Paper submissions related to this topic are most welcome, though there is no requirement for submissions to conform to the theme.



## Audience

STIDS is an opportunity for collaboration and cross-fertilization between researchers and practitioners of semantic-based technology 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 encourages submissions that showcase original, significant research as well as papers that present implementations and lessons learned or discuss, compare, and evaluate the use of semantic techniques. However, in the tradition of an academic conference, submissions are expected to make a tangible contribution to the field of semantics, and so marketing white papers and the like will not be accepted.

## Topic List

STIDS welcomes the submission of papers on semantic technology and ontology relevant to the fields of Intelligence, Defense, and Security. We are especially interested in papers on the following topics:

- Best practices in ontological engineering
- Biology and health
- Collaboration
- Command and Control (C<sub>2</sub>) 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
- Decision making
- 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
- Provenance, source credibility, and evidential pedigree
- Resiliency
- Risk analysis
- Science and Technology (S&T)
- Sensors and intelligence collection
- Social networks
- Spatial and temporal phenomena
- Uncertainty as it relates to ontologies and reasoning
- Usability issues
- Vulnerability assessment

## Submission Details

Submissions of technical papers or extended abstracts are welcomed. 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, 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 2014. All accepted authors will be invited to participate in a poster and demo session to provide an opportunity for extended informal discussion.

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<sup>A</sup>T<sub>E</sub>X 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. Extended abstracts must have between two and four pages. Submissions outside these limits will not be reviewed. In addition, papers that, at the time of submis-



sion, 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

September 12	Paper submission deadline (extended)
October 10	Paper acceptance notification (extended)
October 17	Early bird rates end
October 24	Camera-ready papers due
November 14	Presentations due
November 18	Tutorials
November 19–20	Main Conference
November 21	Classified Session

## Program Committee

- Carl Andersen, Raytheon BBN Technologies
- Rommel Carvalho, Brazilian Office of the Comptroller General and University of Brasilia
- Werner Ceusters, SUNY at Buffalo
- Paulo Costa, George Mason University
- Timothy Darr, Knowledge Based Systems Inc.
- Mike Dean, Raytheon BBN Technologies
- Ian Emmons, Raytheon BBN Technologies
- Matthew Fisher, Progeny Systems
- Katherine Goodier, Xcelerate Solutions
- Mark Greaves, Pacific Northwest National Laboratory
- Richard Haberlin, EMSolutions Inc.
- Peter Haddawy, Mahidol University
- Brian Haugh, IDA



- John Hebler, University of Maryland, Baltimore County
- Terry Janssen, SECaaS
- Gregory Joiner, Raytheon BBN Technologies
- Anne-Laure Joussetme
- Mieczyslaw Kokar, Northeastern University
- Dave Kolas, Raytheon BBN Technologies
- Kathryn Laskey, George Mason University
- Nancy Lawler, U.S. Department of Defense, retired
- Louise Leenen, CSIR
- Michael Letsky, MacroCog Associates
- William Mandrick, Data Tactics
- Daniel Maxwell, KaDSci, LLC
- David Mireles, Raytheon BBN Technologies
- Ranjeev Mittu, US Naval Research Laboratory
- Jeffrey Morrison, Office of Naval Research
- Leo Obrst, MITRE
- Alessandro Oltramari, Carnegie Mellon University
- Mary Parmelee, MITRE
- Gregor Pavlin, Thales Group
- Andrew Perez-Lopez, Opower
- Plamen Petrov, Raytheon BBN Technologies
- Setareh Rafatirad, George Mason University
- Douglas Reid, Google
- Dorene Ryder, Raytheon BBN Technologies
- Bob Schrag, Haystax Technology
- Patrice Seyed, 3M HIS
- Ciara Sibley, Naval Research Lab
- Barry Smith, National Center for Ontological Research, University at Buffalo
- Kathleen Stewart, University of Iowa
- Gheorghe Tecuci, George Mason University
- Brian Ulicny, Thomson Reuters
- Amanda Vizedom, Criticollab
- Andrea Westerinen, Nine Points Solutions, LLC
- Duminda Wijesekera, George Mason University



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## 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  
Alessandro Oltramari, Carnegie Mellon University

We look forward to seeing you in Fairfax!