



# Call for Papers

## Eleventh International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2016)

George Mason University, Fairfax, VA, USA  
Institute for Defense Analyses, Alexandria, VA, USA  
November 15–17, 2016  
<http://stids.c4i.gmu.edu>  
<mailto:stids@c4i.gmu.edu>

The Eleventh International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2016) will be held in November 2016 on the George Mason University Fairfax campus. The main conference will be held Tuesday and Wednesday, November 15–16, with a tutorial session on Monday, November 14 and a classified session at a venue to be announced for those with TS/SCI clearances on Thursday, November 17.

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 the Internet of Things*. Paper submissions related to this topic are most welcome, though there is no requirement for submissions to conform to the theme.



## Audience

STIDS is a premier 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 researchers and recognized leaders from the target application domains.

To facilitate interchange among communities with a clear commonality of interest, 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. 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 related to 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 the engineering of ontologies
- Collaboration
- Command and Control (C2) and Situation Awareness (SA)
- Cyberspace: defense, exploitation, and counter-attack
- Decision making
- Economics and financial analysis
- Emergency response
- Human factors and usability issues related to semantic technologies
- Information sharing
- Infrastructure protection
- Intelligence collection, analysis, and dissemination
- Law and law enforcement
- Planning: representation of and reasoning over plans and processes
- Predictive analysis



- Provenance, source credibility, and evidential pedigree
- Resiliency, risk analysis, and vulnerability assessment
- Science and technology (biology, health, chemistry, engineering, etc.)
- Sensor systems
- Sociology (social networks, ethnicity, religion, culture, politics, etc.)
- Spatial and temporal phenomena and reasoning
- Uncertainty as it relates to ontologies and reasoning

## 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 2016. 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  $\text{\LaTeX}$  or 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 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 submission site](#). Details on submissions for the classified session will be posted on Intelink.



## Important Dates

Mon, August 22	Paper submission deadline
Mon, September 26	Paper acceptance notification
Sat, September 17	Tutorial submission deadline
Tues, October 11	Camera-ready papers due
Tues, October 18	Early bird rates end
Thurs, November 10	Presentations due
Mon, November 14	Tutorials
Tues/Wed, November 15–16	Main Conference
Thurs, November 17	Classified session

## Program Committee

- Carl Andersen, Raytheon BBN Technologies
- Rommel Novaes Carvalho, Brazil's Office of the Comptroller General
- Paulo Costa, George Mason University
- Timothy Darr, Knowledge Based Systems Inc.
- Ian Emmons, Raytheon BBN Technologies
- Matthew Fisher, Progeny Systems
- Mark Greaves, Pacific Northwest National Laboratory
- Richard Haberlin, EMSolutions Inc.
- Peter Haddawy, Mahidol University
- Brian Haugh, IDA
- John Hebler, University of Maryland, Baltimore County
- Edward Huang, George Mason University
- Terry Janssen, Quantum Cybersecurity Systems LLC
- Gregory Joiner, Raytheon BBN Technologies
- Anne-Laure Joussetme, NATO Centre for Maritime Research and Experimentation (CMRE)
- Mieczyslaw Kokar, Northeastern University
- Dave Kolas, Asymmetrik
- Kathryn Laskey, George Mason University
- Louise Leenen, CSIR
- Ranjeev Mittu, US Naval Research Laboratory
- Leo Obrst, MITRE



- Alessandro Oltramari, Bosch Research and Technology Center
- Mary Parmelee, MITRE Corporation
- Patrice Seyed, Rensselaer Polytechnic Institute
- Barry Smith, SUNY Buffalo
- Tony Stein, Raytheon BBN Technologies
- Kathleen Stewart, University of Maryland
- Gheorghe Tecuci, George Mason University
- Brian Ulicny, Thomson Reuters
- Andrea Westerinen, Nine Points Solutions, LLC
- Duminda Wijesekera, George Mason University
- Abbas Zaidi, George Mason University

## Organizing Committee

General Chairs:	Paulo Costa, George Mason University Alessandro Oltramari, Bosch Research and Technology Center
Local Arrangements:	André Negrão Costa, George Mason University
Technical Chairs:	Ian Emmons, Raytheon BBN Technologies Kathryn Laskey, George Mason University
Publicity Chair:	Rich Markeloff, Raytheon BBN Technologies
Tutorials Chair:	Mary Parmelee, MITRE Corporation
Classified Session:	Brian Haugh, Institute for Defense Analyses

We look forward to seeing you in Fairfax!