



## CALL FOR PAPERS

for the

24<sup>th</sup> Conference on Behavior Representation in Modeling and Simulation (BRiMS)  
in Washington, DC

<http://cc.ist.psu.edu/BRiMS2015/>

### *Key Dates*

All submissions due	<b>January 5, 2015</b>
Tutorial Acceptance	January 12, 2015
Authors Notification	February 9, 2015
Final version due	March 3, 2015
Tutorials held	March 31, 2015
BRiMS 2015	March 31- April 3, 2015

### **BRiMS 2015 CONFERENCE**

You are invited to participate in the 24<sup>th</sup> Conference on Behavior Representation in Modeling and Simulation (BRiMS). BRiMS enables modeling and simulation research scientists, engineers, and technical communities across disciplines to meet, share ideas, identify capability gaps, discuss cutting-edge research directions, highlight promising technologies, and showcase the state-of-the-art in applications. The BRiMS Conference will consist of many exciting elements in 2015, including special topic areas, technical paper sessions, special symposia, and a keynote speaker.

The BRiMS Executive Committee invites papers, posters, demos, symposia, panel discussions, and tutorials on topics related to the representation of individuals, groups, teams, and organizations in models and simulations. All submissions are peer-reviewed.

### ***Special Topic Areas of Interest***

BRiMS welcomes submissions analyzing human factors and human-machine systems through modeling and simulation of empirical data related to the following areas:

- Modeling and Simulation (M&S) in Military Domains
- Self-explaining autonomous systems
- Cognitive Cyber-Security
- Virtual Worlds, Serious Games, & Learning Environments
- Biological Influences on Behavioral Models
- Networked Systems Models/Social Cognition

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### ***General Topic Areas of Interest***

General areas of interest include, but are not limited to:

#### **Modeling**

- Intelligent agents and avatars/adversarial modeling
- Cognitive robotics and human-robot interaction
- Models of reasoning and decision making
- Model validation & comparison
- Socio-cultural M&S: team/group/crowd/behavior
- Physical models of human movement
- Performance assessment & skill monitoring/tracking
- Performance prediction/enhancement/optimization
- Intelligent tutoring systems
- Knowledge acquisition/engineering
- Human behavior issues in model federations

#### **Simulation**

- Synthetic environments for human behavior representation
- Terrain representation and reasoning
- Spatial reasoning
- Time representation
- Human behavior usability and interoperability
- Efficiency, usability, affordability issues
- Operator interfaces
- Multi-resolution/fidelity simulations
- Science of simulation issues

### **Paper Presentations**

Paper presentation sessions are composed of 3 to 4 presentations on a related topic. Presentations are conducted lecture-style, allowing 20 minutes for presentation content and 5 minutes for questions and may be done remotely via teleconference software. Papers should describe original research that has not been published elsewhere. Accepted papers are published in the Proceedings. Papers not accepted as full papers will be considered for poster presentations. *Paper presentations must be submitted as full papers, between 5 to 8 pages in length.*

### **Symposia/Panel Discussions**

These sessions are 60-90 minutes long, and encompass several speakers presenting research and/or engaging in discussion on related aspects of a common topic of interest to the BRiMS community. These are not merely collections of presentations; rather, they should consist of a set of common questions/issues addressed by all participants. Abstracts for selected symposia/panel discussions will be published in the Proceedings. *Submissions for symposia or panel discussions must consist of a 2 to 4 page abstract with a session title, identification of chair, brief statements (approximately 250 words) from each participant summarizing main focal points, and identification of common questions/issues addressed by all discussants.*

### **Interactive Session: Posters and Demos**

The Interactive Session involves a longer (approximately 2 hour) period of multiple simultaneous presentations and provides an opportunity for continuous interaction with conference attendees. This session features both static poster-board displays and live demonstrations of state-of-the-art research or technologies. Accepted abstracts are published in the Proceedings. *Poster submissions are limited to a 2-page extended abstract describing the research to be presented or the application/technology to be demonstrated.* The Interactive Session will be held during the poster session.

### **Tutorials**

Tutorials provide conference participants the opportunity to gain new insights, knowledge, and skills in an area related to the interests of the BRiMS community. Tutorials are presented in a lecture-and-discussion or learning-by-doing format. Tutorials may be a half-day (3 hours, plus breaks) or a full-day (6 hours, plus breaks) in duration, and will take place on Wednesday, April 2, 2015. Tutorial proposals may be submitted through the on-line submission system and descriptions for accepted tutorials will be included in conference announcements and in the Proceedings. *Tutorial descriptions (abstracts) should include a detailed outline of the material that will be covered.*

### **Submission Process and Format**

Submissions are handled on-line at the BRiMS website, visit <http://cc.ist.psu.edu/BRiMS2015> for online submissions. Please see the guidelines on the BRiMS website for format requirements and content suggestions. If you have any questions about the submission process or are unable to submit to the web site, please contact **Daniel Cassenti** by email ([daniel.n.cassenti.civ@mail.mil](mailto:daniel.n.cassenti.civ@mail.mil)) or phone 410-278-5859.

### **ACCOMMODATIONS and REGISTRATION**

The conference will be held at the University of California campus in Washington, DC. We are pleased to co-locate BRiMS with the 2015 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction. Please see their web site at <http://sbp-conference.org/> for more information on registration to both conferences.

### **CONFERENCE CO-CHAIRS**

Daniel N. Cassenti, U.S. Army Research Laboratory  
William G. Kennedy, George Mason University

### **PROGRAM CHAIRS**

David Reitter, Penn State University  
Webb Stacy, Aptima, Inc.  
Elizabeth Mezzacappa (Army, Target Behavioral Response Laboratory)

### **WEB MANAGER**

Tracy Sanders, Central Florida University

**BRiMS 2015 Executive Committee:** Brad Best (Adaptive Cognitive Systems), Brad Cain (*Defence Research and Development Canada*), Bruno Emond (*National Research Council Canada*), Coty Gonzalez (*Carnegie Mellon University*), Brian Gore (*NASA*), Kristen Greene (*National Institute of Standards and Technology*), Jeff Hansberger (*Army Research Laboratory*), Tiffany Jastrzembki (*Air Force Research Laboratory*), Randolph M. Jones (SoarTech), Troy Kelley (U.S. Army Research Laboratory), Kenneth Kwok (*DSO National Laboratories, Singapore*), Christian Lebiere (*Carnegie Mellon University*), Bharat Patel (*Defence Science and Technology Laboratory, UK*), Michael Qin (*Naval Submarine Medical Research Laboratory*), Venkat Sastry (*University of Cranfield*), Barry Silverman (*University of Pennsylvania*), Rob St. Amant (*North Carolina State University*), Walter Warwick (*SC Analytics, LLC*), Bob Wray (SoarTech), Patrick Xavier (*Sandia National Laboratories*)

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