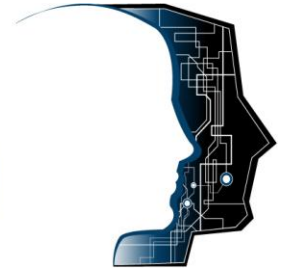


# BRiMS

BEHAVIOR REPRESENTATION IN MODELING & SIMULATION



## 19th Conference on Behavior Representation in Modeling and Simulation (BRIMS)

[www.brimskonference.org](http://www.brimskonference.org)

### Highlights

BRIMS 2010

#### Conference Location

Charleston Harbor Resort & Marina  
Charleston, South Carolina.



#### Key Dates

All submissions due: **January 6, 2010**  
*Note: Paper submissions are full papers*

Tutorial Acceptance: February 1, 2010  
Authors Notification: February 1, 2010  
Final version due: February 19, 2010

Tutorials held: March 22, 2010  
BRIMS 2010 Opens: March 23, 2010

#### Conference Dates

March 22-March 25, 2010.

#### Keynote Speakers

Wayne Gray, PhD  
Rensselaer Polytechnic Institute

LCDR Joseph Cohn, PhD  
DARPA

#### Socio-Cultural M&S Keynote Speakers

Jerrold Post, M.D.  
George Washington University, formerly CIA

Robert Axtell, PhD  
George Mason University

### BRIMS 2010 CONFERENCE

You are invited to participate in the 19<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 2010, including special topic areas, technical paper sessions, special symposia/panel discussions, invited guest speakers, and sponsor sessions.

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

The following research arenas are identified to elicit specific technical content:

- Socio-cultural modeling and simulation
- Neurobiological & biologically-inspired cognitive modeling
- Models of terrorist decision-making for IED placement
- Models of civilian-insurgent interaction
- Situation awareness/decision making models for ISTAR ops
- Model validation & comparison
  - Necessity & sufficiency of mechanisms and parameters

#### General Topic Areas of Interest

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

#### Modeling

- Cognitive or behavioral moderators on performance
- Intelligent agents and avatars
- Models of reasoning and decision making
- Team, group, crowd, and organizational behavior
- Physical models of human movement
- Performance assessment and skill monitoring/tracking
- Performance prediction
- Performance enhancement/optimization
- Modeling architectures/knowledge representation systems
- Knowledge acquisition/engineering
- Human behavior issues in model federations
- Human behavior representation for system design and evaluation

#### 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

## TYPES OF SUBMISSIONS

### Paper Presentations

Paper Presentation Sessions are composed of 3 to 4 presentations on a related topic. Presentations are done lecture-style, allowing 20 minutes for presentation content and 5 minutes for questions. 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, ranging 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 posterboard 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 the opening evening, March 23, 2010.

### Interactive Session: Exhibitor Session

The Exhibitor Session creates a forum to display and demonstrate leading technology and applications and will co-occur with the poster session. This is an opportunity for the BRIMS community to see firsthand, the latest advances and capabilities in modeling and simulation tools. *Exhibitor submissions are limited to a one page description.* Please contact Jeanne Eury ([jeury@lodestar-group.com](mailto:jeury@lodestar-group.com) / Phone 919-326-0278) for exhibitor fees.

### 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 Monday, March 22, 2010. 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 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 [www.brimconference.org](http://www.brimconference.org) 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 **Jeanne Eury** by email ([jeury@lodestar-group.com](mailto:jeury@lodestar-group.com)) or phone 919-326-0278.

## ACCOMMODATIONS and REGISTRATION

The conference will be held at the Charleston Harbor Resort & Marina with conference rates and limited government per diem rates available. Visit [www.charlestonharborresort.com](http://www.charlestonharborresort.com) for general information about the site and accommodations. Conference and hotel registration, general area, and travel information can be found at [www.brimconference.org](http://www.brimconference.org).

### CONFERENCE CHAIR

Tiffany S. Jastrzembksi Air Force Research Laboratory

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