

2007 BRIMS Conference

March 26-29, 2007

Marriott Waterside Hotel

Norfolk, VA



Registration Hours

Monday	7:00 am – 5:00 pm
Tuesday	7:00 am – 5:00 pm
Wednesday	7:00 am – 5:00 pm
Thursday	7:30 am – 12:00 pm

MONDAY, MARCH 26, 2007

CHESAPEAKE I-II

TUTORIALS

0800-1200

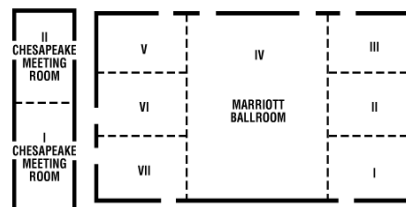
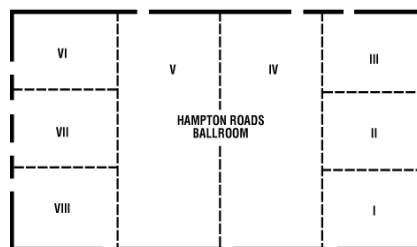
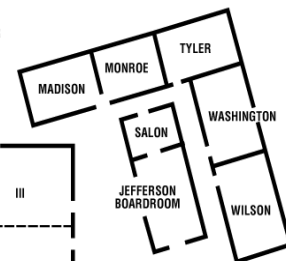
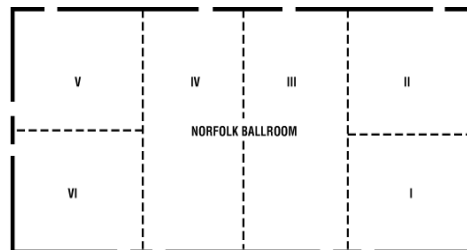
Tutorial #1 - Cognitive Crash Dummies: Predictive Human Performance Modeling for Interactive System Design, *Bonnie E. John & Richard L. Lewis*

Tutorial #2 - Examining Subject Variability Using Human Performance Modeling, *Anna Fowles-Winkler, Andy Belyavin, & Brad Cain*

1300-1700

Tutorial #3 - User Interface Evaluation and Development Using the Graph Based Interface Language (GRBIL) Tool, *Rick Archer & Michael Matessa*


Tutorial #4 - Human Behavior Models and Performance Moderator Functions (PMFs) for Realistic Leader, Follower, & Faction Sims, *Barry G. Silverman*



TUESDAY, MARCH 27, 2007

NORFOLK I-II

- 0800-0810 ***Introduction & Welcome***, Laurel Allender & Troy Kelley, Co-Chairs
- 0810-0900 ***Plenary Speaker***, Professor Dennis McBride, President of the Potomac Institute for Policy Studies
- Sponsor Talks***
- 0900-0920 Air Force Research Laboratory
- 0920-0940 Army Research Institute
- 0940-1000 NASA
- 1000-1030 ***BREAK***
- 1030-1050 DARPA
- 1050-1110 Office of Naval Research
- 1110-1130 Natick Soldier Systems Center
- 1130-1150 Army Research Laboratory
- 1150-1330 ***LUNCH***
- HBR—Building on the Basics***
- 1330-1400 ***07-BRIMS-035*** - Modeling Automaticity and Strategy Selection in Dynamic Visual Detection, *Bradley J. Best, Cleotilde Gonzalez, Michael D. Young, Alice F. Healy, & Lyle E. Bourne, Jr.*
- 1400-1430 ***07-BRIMS-041*** - An ACT-R Model of an Approach Officer in a Modified Periscope Depth Task, *Michael D. Fleetwood*
- 1430-1500 ***07-BRIMS-012*** - Towards A Human Behavior Model Based on Instincts *Victor C. Hung & Avelino J. Gonzalez*
- 1500-1530 ***BREAK***
- HBR for Training***
- 1530-1600 ***07-BRIMS-016*** - Critical Facilities Virtual Environment for Emergency Responders, *Ayman Wasfy & Wanda Gill*
- 1600-1630 ***07-BRIMS-025*** - Multi-scale Behavioral Models for Urban Crisis Training Simulation, *Jerome Comptdaer, Emmanuel Chiva, Stephane Delorme, Henri Morlaye, Jérôme Volpoët, & Olivier Balet*



BRIMS 2007 RECEPTION
INTERACTIVE POSTERS AND DEMOS
TUESDAY, March 27, 2007
1730-2030
NORFOLK III

07-BRIMS-010 - Using a Diagram Representation System with ACT-R

Michael Matessa & Alan Brockett

07-BRIMS-011 - Modeling of Aggregates of Individuals and Crowd Evaluations
Station (MAICE Station) Demonstration

Peter D. Hottenstein & Thomas Glass

07-BRIMS-019 - Modeling Data Entry in IMPRINT

Carolyn J. Buck-Gengler, William D. Raymond, Alice F. Healy, & Lyle E. Bourne, Jr.

07-BRIMS-022 - Deception Detection: Creating Realistic Facial Expressions Using
the FACS Methodology in Training Simulations


Jennifer King

07-BRIMS-023 - Visual Systems Interface

Shawn Nicholson, Michael Fotta, Robert St. Amant, & Michael D. Byrne

07-BRIMS-026 - HFM-128 NATO Research Task Group on Representation of
Human Behavior in Constructive Simulation: A Perspective on Progress and Plans

Wouter Lotens, Laurel Allender, Andy Belyavin, Martin Castor, Kevin Gluck, Joe Armstrong, & Brad Cain



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07-BRIMS-038 - Building a Library of Reusable Human Communicative Behavior Models

Edward Sims

07-BRIMS-040 - Modeling Affective Reactions for Training Adaptive Interviewing

Geoffrey Frank & Robert Hubal

07-BRIMS-042 - Six Month Post Training Transfer Utilizing Mental Knowledge Structure Modeling

Ryland C. Gaskins, III, Wesley Ishom, & Stuart S. Gittelman

07-BRIMS-050 - The Development of a Virtual McKenna MOUT Site for Soldier Performance Experiments

David R. Scribner & Patrick W. Wiley

07-BRIMS-051 - InsurgiSIM

Aline Normoyle, Rich Pater, Mark Roddy, Praveen Kannan, Gnana Bharathy, Barry G. Silverman, & Deepthi Chandrasekaran

07-BRIMS-052 - Monte Carlo: FactionSim

Ben Nye, Barry G. Silverman, Mark Roddy, Tony Smith, & Gnana Bharathy

WEDNESDAY, MARCH 28, 2007

NORFOLK I-II

- 0800-1000 **Social and Cultural Modeling Symposium**
Laurel Allender & Janet Sutton, Moderators, Members, David Matsumoto, Janet Sutton, Glenn Taylor, Michael van Lent, & Stacy Marsella
- 1000-1030 **BREAK**
- 1030-1100 **HBR Environments for Testing**
07-BRIMS-014 - dTank Updated: Steps Towards Exploring Moderator-Influenced Behavior in a Light-weight Synthetic Environment, *Frank E. Ritter, Sue E. Kase, Damodar Bhandarkar, Bil Lewis, & Mark A. Cohen*
- 1100-1130 07-BRIMS-015 - The BICA Cognitive Decathlon: A Test Suite for Biologically-Inspired Cognitive Agents, *Shane T. Mueller, Matt Jones, Brandon S. Minnery, & Julia M. H. Hiland*
- 1130-1200 07-BRIMS-037 - Combinatorics Meets Processing Power: Large-Scale Computational Resources for BRIMS, *Kevin Gluck, Glenn Gunzelmann, Jack Harris, Matthias Scheutz, & Jeff Kershner*
- 1200-1330 **LUNCH**
- HBR - Getting Information to the Agent**
- 1330-1400 07-BRIMS-029 - Modeling and Measuring the Interaction between Experience and the Quality of Information, *Andy Belyavin & Chris Ryder*
- 1400-1430 07-BRIMS-017 - Computer Graphics-Based Target Detection for Synthetic Soldiers, *Christian J. Darken & Brian E. Jones*
- 1430-1500 07-BRIMS-028 - Computational Narrative in Support of M&S Behavior Representation, *Reginald L. Hobbs*
- 1500-1530 **BREAK**
- HBR for Decision-Making and Planning**
- 1530-1600 07-BRIMS-036 - A Naturalistic Approach to Adversarial Behavior: Modeling the Prisoner's Dilemma, *Amy Santamaria & Walter Warwick*
- 1600-1630 07-BRIMS-021 - Modeling Rules of Engagement in Computer Generated Forces, *Rick Evertsz, Frank E. Ritter, Simon Russell, & David Shepherdson*
- 1630-1700 07-BRIMS-024 - A Mission Plan Representation for Autonomous Reasoning of Consequences, *Brian C. Becker, Avelino J. Gonzalez, Keith Garfield*

THURSDAY, MARCH 29, 2007

NORFOLK I-II

HBR - Validation and Chaos

- 0800-0830 07-BRIMS-054 - Agent Interactions in Construct: An Empirical Validation Using Calibrated Grounding
Craig Schreiber & Kathleen M. Carley
- 0830-0900 07-BRIMS-020 - The Appearance of Chaos in High Performance Behavior
Thomas L. Clarke & Brian F. Goldiez
- 0900-0930 07-BRIMS-044 - Validation of Workload Algorithms within the Integrated Performance Modeling Environment
Joe Armstrong, Michelle Gauthier, Wenbi Wang, Brad Cain, & Andy Belyavin

0930-1000 **BREAK**

HBR - Culture and Crowds

- 1000-1030 07-BRIMS-018 - Crowd Dynamics Simulation Research
D. J. Kaup, T. L. Clarke, Rex Oleson, & Linda C. Malone
- 1030-1100 07-BRIMS-047 - Crowd Federate Integration with a Multi-Player On-Line Game
Frederic (Rick) D. McKenzie, Herbert Piland, & Mary Cherng
- 1100-1130 07-BRIMS-045 - A Computational Approach to Etiquette and Politeness: An Etiquette Engine for Cultural Interaction Training
Christopher Miller, Peggy Wu, Harry Funk, Lewis Johnson Hannes Vilhjalmsson

1130-1200 **Closing Session, Troy Kelley & Laurel Allender, Co-Chairs**
Recommended Reading List Awards
17th BRIMS Announcements

1400- **Tour of VMASC, Sign up at the Registration Desk**

The Virginia Modeling, Analysis and Simulation Center (VMASC) is a multi-disciplinary simulation and visualization collaborative research center managed through the Old Dominion University. It was established in 1997 and boasts more than \$10M a year in funded research. It is just minutes from downtown Norfolk.

