

5th IEEE Workshop on Situation Management (SIMA 2009)
(In Conjunction with MILCOM 2009)

20 October 2009

ADVANCE PROGRAM

8:45 – 8:55 **SIMA 2009 Opening**
SIMA 2009 Chair Gabriel Jakobson, Altusys Corp.

8:55 – 10:35 **Session 1 Situation Awareness**
Session Chair: Adam Stotz, CUBRC

1.1. Context-Awareness in Crisis Management (900748)

Galina L. Rogova, Encompass Consulting

1.2. Situation Assessment via Multi-Target Identification and Classification in Radar Sensor Networks (900032)

Hong-Sam T. Le, University of Texas at Arlington, and Qilian Liang, University of Texas at Arlington

1.3. Towards Middleware Based Situation Awareness (901561)

Leo Motus, Tallinn University of Technology, Merik Meriste, Tallinn University of Technology and University of Tartu, and Jurgo Preden, Tallinn University of Technology

1.4. Augmenting Ad Hoc Networks for Data Aggregation and Dissemination (901581)

Steven Okamoto, Carnegie Mellon University, and Katia Sycara, Carnegie Mellon University

1.5. Knowledge Visualization to Enhance Human-Agent Situation Awareness Within a Computational Recognition-Primed Decision System (901456)

Timothy Hanratty, US Army Research Laboratory, Robert J. Hammell II, Towson University, John Yen, Pennsylvania State University, Michael McNeese, Pennsylvania State University, Sooyoung Oh, Pennsylvania State University, Hyun-Woo Kim, Pennsylvania State University, Dev Minotra, Pennsylvania State University, Laura Strater, SA Technologies, Inc., Haydee Cuevas, SA Technologies, Inc., and Don Colombo, SA Technologies, Inc.

10:35 – 10:50 **Coffee Break**

10:50 – 12:30 **Session 2 Cyber Security Situation Management**
Session Chair: Lundy Lewis, SNHU

2.1 ViSAw: Visualizing Threat and Impact Assessment for Enhanced Situation Awareness (900380)

Michael Nusinov, Rochester Institute of Technology, Shanchieh Jay Yang, Rochester Institute of Technology, Jared Holsopple, CUBRC, Inc., and Moises Sudit, CUBRC, Inc.

2.2 Managing Evolving Security Situations (900425)

Jyri Kivimaa, Cooperative Cyber Defense Center of Excellence, Andres Ojamaa, Institute of Cybernetics of Tallinn University of Technology, and Enn Tyugu, Cooperative Cyber Defense Center of Excellence

2.3 Secure Cooperative Ad hoc Applications Within UAV Fleets (901028)

Serge Chaumette, LaBRI, University Bordeaux, Remi Laplace, LaBRI, University Bordeaux, Christophe Mazel, Fly-n-Sense, Bordeaux TechnoWest, and Aurelien Godin, DGA/ETAS/VTR

2.4 Improved Situation Assessment Through Early Detection During a Bioterrorist Attack by Using Dynamic Graph Matching (901408)

Kedar Sambhoos, CUBRC, Inc., Moises Sudit, CUBRC, Inc., and Jomon Paul, Kennesaw State University

2.5 Real-time Classification of IDS Alerts with Data Mining Techniques (901247)

Risto Vaarandi, Cooperative Cyber Defense Centre of Excellence

12:30 – 1:30 **Lunch**

1:30 – 3:10 **Session 3 - Cognitive Modeling and Reasoning**
Session Chair: Enn Tyugu, CCDCOE

3.1. Adversarial Reasoning under Uncertainty Using a Deterministic Planner (900488)

Michael Howard, HRL Laboratories, LLC and Eric Huang, HRL Laboratories, LLC

3.2. Introducing Semantic Knowledge in High-level Fusion (900659)

Claire Laudy, THALES, and Jean-Gabriel Ganascia, Laboratoire d'Informatique de Paris 6

3.3. Automating Battlefield Event Reporting Using Conceptual Spaces and Fuzzy Logic for Passive Speech Interpretation (901395)

Katie T. McConky, CUBRC, William Rose, Lockheed Martin, Pat McLaughlin, Lockheed Martin, and Moises Sudit, Center for Multisource Information Fusion

3.4. Using Gaming Technologies and Platforms to Experiment with Fusion Algorithms for Situation Management (901508)

Lundy Lewis, Southern New Hampshire University, Tom Adamson, Southern New Hampshire University, Matt Studley, Southern New Hampshire University, Mike Faucon, Southern New Hampshire University, Yanbin Guo, Southern New Hampshire University, and Christopher Melanson, Southern New Hampshire University

3.5 Situation Based Control for Cyber-Physical Environments (901486)

Vivek K. Singh, University of California, Irvine, and Ramesh Jain, University of California, Irvine

3:10 – 3:25 **Coffee Break**

3:25 – 4:45 **Session 4 Panel - The Current State and Future Directions of Situation Management**
Panel Chair: Gabriel Jakobson, Altusys

4:45 – 6:00 **IEEE ComSoc Situation Management Technical Sub-Committee Meeting**