



Hosted in Denver, Colorado • August 19-21, 2014

## 2<sup>nd</sup> International Symposium on Resilient Cyber Systems

**Statement of Themes:** The overwhelming majority of engineered systems in use today are highly dependent on computation and communication resources. This includes system at all levels, ranging for example, from our vehicles, to large-scale industrial systems and national critical infrastructures. The resilience of the underlying computational systems and infrastructures underlying these technologies is of great importance for mission continuity and success. Resilience, in this context, is understood as the ability of a system to anticipate, withstand, recover and evolve from external attacks or failures. In this symposium we will focus on the topic of resilience of cyber systems. Among others, the concepts of cyber awareness, anticipation, avoidance, protection, detection, and response to cyber attacks will be promoted and will help set the tone of the event. A better understanding and development of these concepts and its supporting technologies will help provide some of the key underlying capabilities for the design and development of resilient cyber systems.

### Submission Schedule

- Paper Submission Due: April 28, 2014 - **Extended**
- Notification of Paper Acceptance: June 9, 2014
- Final Paper Submission: July 7, 2014

### Cost

- \$495
- \$445 for registration by July 11, 2014
- Half price registration for registered students

### Venue/Accommodations

Grand Hyatt Denver  
1750 Welton Street,  
Denver, Colorado, USA, 80202  
Tel: 303-295-1234 • Fax: 303-603-4009

### Schedule

- Day 1: Tutorial & Workshop Sessions
- Day 2: Paper Sessions
- Day 3: Panel Discussions
- Day 4: Optional Tour

### General Chairs

- Marco Carvalho, Florida Institute of Technology
- Annarita Giani, Los Alamos National Laboratory
- Eugene Santos, Dartmouth College

### Organizing Chair

- Jodi Grgich, Idaho National Laboratory

### Publication Chair

- Marco Carvalho, Florida Institute of Technology
- Indrajit Ray, Colorado State University

### Technical Program Chairs

- Annarita Giani, Los Alamos National Laboratory

### Call for Papers

Paper submission will be handled through the symposium website below. Please refer to this website for the latest information.

### Topical Areas (including, but not limited to)

- Resilient Cyber Frameworks and Architectures: multi-agent systems for monitoring and control, supervisory control and data acquisition, distributed sensemaking and coordination
- Moving Target Defense: Moving target defense technologies, evaluation metrics, visualization and command and control capabilities
- Human Machine Interaction and Cyber Visualization: cognitive modeling, applied machine learning, visualization concepts and technologies
- Human Systems Design: environmental configuration, tailored presentation
- Sensor Architectures: embedded modeling and analysis, intelligence and agents, wireless control and determinism, multi-parameter integration and diversity
- Human and Systems Behavior: behavior modeling, attacker co-evolution, deception  
Data Fusion: data reduction, security characterization, data diversity, anomaly detection
- Computational Intelligence: machine learning, neural networks, fuzzy logic, evolutionary computation, Bayesian belief networks
- Resilient Cyber-physical power and energy systems: real-time communication, protection, control, resilience, reliability, sustainability, efficiency.

### Keynote Speakers

- Michael VanPutte, MOD-2
- Dr. Bill Sanders, University of Illinois at Urbana-Champaign

<http://resilienceweek2014.inl.gov/CyberSystems>