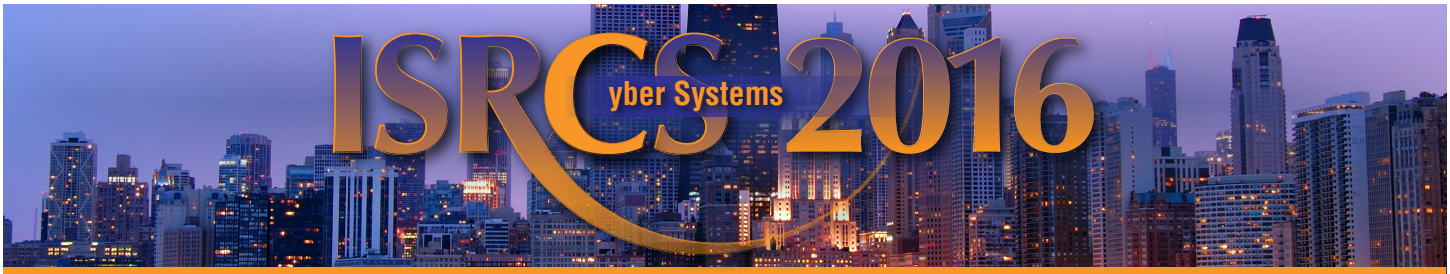

Hosted in Chicago, IL • August 16-18, 2016

4th 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 systems at all levels, ranging from vehicles to large-scale industrial systems and national critical infrastructures. The resilience of the 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 cyber attacks and 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 4, 2016
- Notification of Paper Acceptance: June 13, 2016
- Final Paper Submission: July 4, 2016

Cost

- $495 for registration by July 15, 2016
- $595 after deadline has passed
- $50 discount for IEEE IES and HFES members
- 50% discount for current students

Venue/Accommodations

Hilton Lisle/Naperville
3003 Corporate West Drive
Lisle, Illinois 60532
630.505.0900

Schedule

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

General Chairs

- Marco Carvalho, Florida Institute of Technology
  mcarvalho@fit.edu
- Annarita Giani, GE Global Research
  annarita.giani@ge.com

Organizing Chair

- Rebekah Lee, Florida Institute of Technology
  rlee@fit.edu

Call for Papers

Paper submission will be handled through the symposium website under the Symposia menu on the Resilience Week homepage.

Please refer to this website for the latest information.

- Full Papers: limited to 6 double column pages in a font no smaller than 10-points per IEEE format guidance.
- Work-in-Progress and Industry practice: limited to 4 double column pages, in a font no smaller than 10-points per IEEE format guidance. Work-in-Progress papers comprise up to 4 double-column pages, describing research that has not yet produced the results required for a regular paper, but that due its novelty and potential impact deserves to be shared with the community at an early stage. Accepted papers and Work-in-Progress papers will be published in the conference proceedings.

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 confguration, 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.

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