**8th International Symposium on Resilient Control Systems**

The major purpose of this symposium is to extend and endorse particular concepts that will generate novel research and codify resilience in next generation communication system designs.

**Statement of Themes:** Engineering systems are increasingly subjected to disturbances which are not generally predictable at design time. These disturbances can be man-made or naturally occurring, and they can be physical or cyber in nature. A multi-disciplinary approach for designing controls for these systems is envisioned that provides the intrinsic state awareness and intelligence that give the overall system an increased level of resilience.

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**Submission Schedule**
- Paper Submission Due: April 6, 2015
- Notification of Paper Acceptance: June 15, 2015
- Final Paper Submission: July 6, 2015

**Cost**
- $495
- $445 for registration by July 12, 2015
- $50 discount for IEEE IES members
- $50 discount for HFES members
- Half price registration for registered students

**Venue/Accommodations**
Hyatt Regency Philadelphia
201 S Columbus Blvd, Philadelphia, PA 19106
Tel: 215.928.1234 • Fax: 215.521.6543
Reservations

**Schedule**
- Day 1: Special Topics Sessions
- Day 2: Paper Sessions
- Day 3: Panel and Breakouts

**Benefits**
- Opportunity to participate in an evolving focus area within critical infrastructure protection and cyber-physical systems
- Reduced registration fee for IEEE IES members

**General Chairs**
- Frank Ferrese, Naval Surface Warfare Center
  [Send Email]
- David Scheidt, Johns Hopkins Applied Physics Laboratory
  [Send Email]

**Organizing Chair**
- Michelle Cozzi, Naval Surface Warfare Center
  [Send Email]

**Technical Program Chairs**
- Li Bai, Temple University

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**Call for Papers**
Paper submission will be handled through the symposium website listed below.
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)**
- Human Machine Interaction: cognitive modeling, machine learning, digital human modeling
- Human Systems Design: environmental configuration, tailored presentation
- Control Theory: intelligent, reconfigurable, optimal
- Control Framework: supervisory, multi-agent, distributed intelligence
- Sensor Architectures: embedded modeling and analysis, intelligence and agents, wireless control and determinism, multi-parameter integration and diversity
- Monitoring/Control Security: decoys, randomization, diversity, training and cognition, decision making, measurement
- Cyber Architecture: health indicators, defense optimization
- Data Fusion: data reduction, security characterization, data diversity, anomaly detection, response prioritization
- Computational Intelligence: machine learning, neural networks, fuzzy logic, evolutionary computation, Bayesian belief networks
- Cyber-physical power and energy systems: real-time communication, protection, control, resilience, reliability, sustainability, efficiency
- Robotic systems: Failure/error tolerance and recovery, adaptable/flexible architectures, multi-level/agent systems, multi-sensor fusion, tele-presence, probabilistic behaviors, performance validation/verification, communications security
- Cyber-physical system security
- Cyber security for industrial control systems

**Keynote Speakers**
- Paul Stockton, Sonecon, LLC
