# 7th 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 control 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.

## Submission Schedule
- Paper Submission Due: April 28, 2014 - *Extended*
- Notification of Paper Acceptance: June 9, 2014
- Final Paper Submission: July 7, 2014
- Symposium Website:
  http://resilienceweek2014.inl.gov/controlsystems

## Cost
- $495
- $445 for registration by July 11, 2014
- $50 discount for IEEE IES members
- Half price registration for registered students

## Venue/Accommodations
Grand Hyatt Denver
1750 Welton Street
Denver, Colorado, USA, 80202
Tel: +1 303 295 1234
Fax: +1 303 603 4009

## Schedule
- Day 1: Special Topics Sessions
- Day 2: Paper Sessions
- Day 3: Panel and Breakouts
- Day 4: Optional Tour

## Benefits
- Opportunity to participate in an evolving focus area within critical infrastructure protection and cyber-physical systems
- Reduced registration fee for IEEE IES members
- Optional trip to area attraction for a nominal fee

## Call for Papers
Paper submission will be handled through the symposium website listed under submission schedule. Please refer to this website for the latest information.

## 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

## Keynote Speakers
- Prof. Lynne Parker, University of Tennessee

## General Chairs
- Frank Ferrese, Naval Surface Wafare Center
- David Scheidt, Johns Hopkins Applied Physics Laboratory

## Organizing Chair
- Michelle Cozzi, Naval Surface Warfare Center

## Publication Chair
- Li Bai, Temple University

## Technical Program Chairs
- Saroj Biswas, Temple University
- Chika Nwankpa, Drexel University

## Technical Co-Sponsor
- IEEE Industrial Electronics Society

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