



Hosted in San Francisco, California • August 13-15, 2013

1st International Symposium on Resilient Communication 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: Many commercial and government applications require reliable and secure communications for effective operations. These communications are often challenged in contested environments – whether from hostile states in an anti-access area denial scenario, degraded infrastructure following a man-made or natural disaster, or finite spectrum pressure that restrict agility. The symposium will highlight how incorporation of resiliency in communications systems can support a wide range of applications given uncertainty in the communication environment.

Submission Schedule

- Paper Submission Due: April 1, 2013
- Notification of Paper Acceptance: June 3, 2013
- Final Paper Submission: July 8, 2013
- Symposium Website: <http://communicationsystems2013.inl.gov/>

Cost

- \$495
- \$445 for registration by July 12, 2013
- \$50 discount for IEEE IES members
- Half price registration for registered students

Venue/Accommodations

Hilton, San Francisco Financial District
750 Kearny Street, San Francisco, California, United States 94108
Tel: 415-765-7838 • Fax: 415-765-7890

Schedule

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

Benefits

- Opportunity to participate in an evolving focus area in conjunction with resilient control, cognitive, and cyber system research
- 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 above. Please refer to this website for the latest information.

Topical Areas (including, but not limited to)

- Architectures: protocols, standards, point-to-point, distributed, networked, wireless, multi-modal, gateways, sensor networks, strategies
- Threats and Failures: jamming, interference, frame/bit errors, data loss, cyber-physical security, human error, malicious attacks, disasters, situational awareness, diagnosis
- Wireless spectrum management: sharing, deconfliction, utilization, allocation
- Characterization: diversity, security, risk management, reliability, recovery, interoperability, fault tolerance, trust, latency, survivability, quality of service, disruption tolerance, complexity, adaptability
- Testing: Modeling, simulation, experimentation, instrumentation, qualification, laboratory, open air
- Networks and Infrastructure: cellular, VoIP, LTE, MANETS, peer-peer, 911, LMR, optical, SCADA, smart grid, backhaul
- Military applications: anti-access area denial (AA/AD), joint/coalition operations, national security, data links, SATCOM
- Civil applications: emergency and incident response, disaster preparedness, public safety, 911, assured communications, industrial internet

Keynote Speakers

- Declan Ganley, Rivada Networks
- DHS, Office of Cybersecurity and Communications

General Chairs

- Scott Rothermel, United States Air Force
- Juan Deaton, Idaho National Laboratory
- Darrell Apilado, United States Air Force

Organizing Chair

- Jodi Grgich, Idaho National Laboratory

Publication Chair

- Li Bai, Temple University

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