

# ISRCS 2011

Hosted in Boise, Idaho  
August 9-11, 2011

## 4th 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.



University of Idaho



### Contact Information

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## Special/Invited Session Announcement and Call for Papers

### Session S/I-05:

Game theoretic approach to network security and reliability

### Session Abstract:

The focus of this workshop session is to discuss research ideas for analyzing and improving security and reliability of interdependent infrastructure networks. We will discuss the progress made over the past year at the TRUST Science and Technology Research Center in applying game theoretic tools to security assessment and improvement.

### Topics:

- Security and reliability metrics for large-scale networks
- Analysis of network interdependencies
- Managing residual risks for critical infrastructure systems
- Incentive mechanisms for security: economic perspective

### Chairs:

- Galina A. Schwartz (TRUST, UC Berkeley) [schwartz@eecs.berkeley.edu](mailto:schwartz@eecs.berkeley.edu)
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- S. Shankar Sastry (TRUST, UC Berkeley) [sastry@coe.berkeley.edu](mailto:sastry@coe.berkeley.edu)

We request 3 slots of 1.5 hours each. During the first slot we will focus on game theoretic aspects of several important security problems. In the second slot, we will address the problems that arise due to network induced interdependencies of critical infrastructure systems. In the last slot, we will discuss security and reliability metrics, and incentive mechanisms for improving security.