

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



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Special/Invited Session Announcement and Call for Papers

Session S/I-02:

Multi-Sensor Fusion and Cooperative Robot Control

Session Abstract:

With the increasing need for resilience, flexibility, efficiency, performance, product diversity and accuracy, modern control systems are required to operate in an inherently complicated, uncertain, and dynamic world. Consequently, these systems are complex networks of sensors, machines, and other resources. Two of the most critical issues in these systems include fusion of information to develop consistent knowledge, and cooperative control of resources for optimizing metrics such as plant throughput. This session solicits papers addressing the above issues in a complex networked environment.

Topics:

The topics include but are not limited to the following:

- Sensor Fusion Algorithms based on Probabilistic and Statistical Techniques, Intelligent Techniques such as Neural Network and/or Fuzzy Logic, Expert Systems
- Multi-Robot Cooperative Control; Self-Organization; Biologically Inspired Mechanisms for Control; Swarming Concepts; Decentralized Control; Discrete Event Control; Stochastic Control

Chairs:

- Chair: Prof. Devendra Garg, Duke University, Email: dpgarg@duke.edu
- Co-Chair: Prof. Manish Kumar, University of Cincinnati, Email: manish.kumar@uc.edu

Authors' Schedule:

- Paper submission deadline: **April 4, 2011**
- Notification of acceptance: **June 6, 2011**

Submission of Papers:

Papers must be submitted electronically through the electronic submission system. For further details please consult the conference web pages for the paper template.