



## 5th 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.

### Special/Invite Session Announcement and Call for Papers



University of Idaho



#### Contact Information

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#### Session S/I-04:

Co-Robotics and Tele-Presence

#### Session Abstract:

Because humans are inherently capable of tremendous levels of resilience, system resilience can be greatly enhanced by the inclusion of a human in the loop. This may include humans sharing the operating space with the robot (Co-Robotics), or humans involved in the control and operation of a remote robotic system (Tele Presence). Examples in co-robotics and tele-presence include resilience to unstructured and/or dynamic operating environments, resilience to communication latency or disruption, task variation, dynamic task assignment, etc. This session solicits papers addressing these topics.

#### Topics:

Topics for this session include, but are not limited to:

- Human detection and tracking algorithms; Shared workspaces; Human-robot cooperative operation; Novel human/robot interaction methods;
- Tele-presence systems; Resilient tele-presence systems; Hybrid tele-presence/autonomous systems; Tele-presence augmentation via computer intelligence, Multi-modal tele-presence interfaces

#### Chairs:

- Chair: Corrie Nichol, Ph.D. Idaho National Laboratory
- Co-Chair: Prof. Mark Colton, Ph.D. Brigham Young University

#### Authors' Schedule:

- Paper submission deadline: **April 2, 2012**
- Notification of acceptance: **June 4, 2012**

#### 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.