Welcome to the 3rd International Symposium on Resilient Control Systems

Craig Rieger, Symposium Chair

August 10-12, 2010
Idaho Falls, Idaho
Symposium Staff

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Enhancements from 2\textsuperscript{nd} Symposium

- Two Additional Tracks
  - Complex Networked Control Systems (Chair: Prof. YangQuan Chen, Utah State University)
  - Data Fusion (Prof. Devendra Garg, Duke University)
- Parallel Sessions
  - Tutorial/Workshop Sessions, including interactive presentations that combine track elements
  - Paper Sessions, including several special sessions in Intelligent Systems and Industrial Perspectives
- Panel Discussions
  - Roundtable in Human Systems that includes Research and Industrial Perspectives
  - Complex Networked Control System Interdependencies and the Role of the Human
• A proceedings CD was provided for registrants
• Videos of keynote addresses and hard copy presentations will be posted on the symposium website (https://www.inl.gov/isrcs)
• Copies of session presentations will also be posted on the symposium website
Agenda and Logistics

Margie Jeffs, Symposium Facilitator

August 10-12, 2010
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Tuesday, August 10 - Tutorials and Workshops
- 8:00 a.m. Registration
- 8:15 a.m. Welcome, Introductions and Logistics
- 8:30 a.m. Keynote 1: Dr. Chitra Venkatramani, IBM
- 9:30 a.m. BREAK
- 10:00 a.m. Session 1
  - Track 1: Tutorial on Prognostics and Health Management
  - Track 2: Workshop on Universal Laws, Architectures, and Behaviors of Robust, Evolvable Networks
  - Track 3: Formally Modeling the Human Element and Its Impact on Control Systems Resiliency
- 11:30 a.m. Lunch Break (*no-host*)
- 1:00 p.m. Session 2 (continuation)
  - Track 1: Tutorial on Prognostics and Health Management
  - Track 2: Workshop on Universal Laws, Architectures, and Behaviors of Robust, Evolvable Networks
  - Track 3: Formally Modeling the Human Element and Its Impact on Control Systems Resiliency
- 2:30 p.m. BREAK
- 3:00 p.m. Session 3 (continuation)
  - Track 1: Tutorial on Prognostics and Health Management
  - Track 2: Workshop on Universal Laws, Architectures, and Behaviors of Robust, Evolvable Networks
- 4:30 p.m. Adjourn for the day
- 6:00 p.m. Symposium Chair Working Dinner (special invitation only)
Agenda Overview for Symposium

• Wednesday, August 11 - Papers and Presentations
  – 8:15 a.m. Daily Agenda
  – 8:30 a.m. Keynote 2: Prof. Bogdan Wilamowski, Auburn University
  – 9:30 a.m. BREAK
  – 10:00 a.m. Session 1
    • Track 1: Complex Networked Control Systems and Resilience
    • Track 2: Open Symposium: The Mermos Human Reliability Method for Resilience
    • Track 3: Robotics and Mechatronics
    • Track 4: Data Fusion Applications
  – 11:30 a.m. Hosted Working Lunch
  – 12:00 p.m. Keynote 3: Dr. Floyd (Ben) Cole III, National Security Agency
  – 1:00 p.m. Session 2
    • Track 2: Special Presentation: Model of Resilience in Situations (MRS),
    • Track 3: Part 2, Robotics and Mechatronics
  – 2:30 p.m. BREAK
  – 3:00 p.m. Session 3
    • Track 1: Industrial Perspective on Resilient Control Systems
    • Track 2: Roundtable: Reconciling Resilience and Reliability
    • Track 3: Resilient Coordination Over Sensing & Communication Networks
  – 4:30 p.m. Adjourn until social at Mountain River Ranch
  – 5:15 p.m. Pick up attendees at hotels
  – 5:30 p.m. Leave for Mountain River Ranch
  – 6:15 p.m. Arrive at Mountain River Ranch
  – 8:30 p.m. Depart Mountain River Ranch to return to hotels
• Thursday, August 12 - Panel Discussions
  – 8:15 a.m. Daily Agenda
  – 8:30 a.m. Keynote 4: Prof. Mo-Yuen Chow, North Carolina State University
  – 9:30 a.m. BREAK
  – 10:00 a.m. Panel Discussion: Complex Network Control System Interdependencies and the Role of the Human, Both Beneficial and Malicious
  – 11:50 a.m. Symposium Conclusion
  – 12:00 p.m. Adjourn
Symposium Rooms, Restrooms and Exits
• Symposium attendees can park for free
• Shuttle transportation is available from hotels:
  – AmeriTel Inn: (208) 523-1400
  – LeRitz Hotel and Suites: (208) 528-0880
  – Fairfield Inn and Suites: (208) 552-7378
  – Hilton Garden Inn: (208) 522-9500
• If unavailable or an immediate ride is needed, see the registration desk
Spots may still be open to the special, all-day guided tour of Yellowstone Park at a cost of $59. Please see the registration desk.
• Please join the ISRCS group on Facebook and Twitter to receive symposium updates:
  – http://www.twitter.com/ISRCS

• University Place IT Staff will now go over how to set up your laptop to access wireless at the symposium