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Ideas and Technology of Control Systems

Tuesday, December 14, 2010

9:30 am – 3:00 pm

Salons A-C, Hilton Atlanta Hotel*

10th Anniversary

This workshop is held in conjunction with the 2010 IEEE Conference on
Decision and Control [2010 IEEE Conference on Decision and Control](#)

PROGRAM

- 9:30** **Welcome**
Bozenna Pasik-Duncan, University of Kansas and Chair AACC and IEEE CSS
Control Education Committees
Bonnie Ferri, Georgia Institute of Technology
Roberto Tempo, Politecnico di Torino, Italy and President, IEEE Control Systems
Society
Mark Spong, Lars Magnus Ericsson Chair and Dean, Erik Jonsson School of
Engineering and Computer Science, University of Texas, Dallas and General
Chair, 2010 CDC
Careers in Control and Robotics
- 10:10** *Joys and Perils of Automation*
Christos Cassandras, Head, Division of Systems Engineering and Professor of
Electrical and Computer Engineering, Boston University, President Elect, Control
Systems Society
- 10:30** *Synthetic Biology and Biomolecular Programming*
Richard Murray, Everhart Professor of Control and Dynamical Systems and
Bioengineering, California Institute of Technology
- 10:50** *Robotic Science Explorers for Understanding Climate Change*
Ayanna Howard, Associate Professor, School of Electrical and Computer
Engineering, Georgia Institute of Technology
- 11:10** *Demonstrations using LEGO NXT*
Meghan Kerry, Product Marketing Engineer, National Instruments
- 11:30** *Interactive Demos of Control Systems*
Bonnie Ferri, Professor, School of Electrical and Computer Engineering, Georgia
Institute of Technology
- 11:50** **Lunch** (provided on site)
- 12:40** *Control the Unstable: A Case Study in Fluid Flows*
Anuradha Annaswamy, Senior Research Scientist, Massachusetts Institute of
Technology
- 1:00** *Energy Management in Homes and Commercial Buildings*
Datta Godbole, Lab Director, Honeywell Labs
- 1:20** *Flying Robots on Stage—Control and Learning for Aerial Acrobatics*
Angela Schöllig, Doctoral Student, Institute for Dynamic Systems and Control,
ETH Zurich, Switzerland
- 1:40** *Typical Day at Sea? A Venture into the World of Autonomous Sailing*
Katrina Legursky, Doctoral Student, Aerospace Engineering, University of Kansas
- 2:00** *Food Processing Controls*
Doug Britton, Sr. Research Engineer, Georgia Tech Research Institute
- 2:20** *Wiimotes and Rocket Ships – Learning to Engineer and to Make Problems Simple*
Leor Grebler, Academic Solutions Advisor, Quanser
Amirpasha Javid, Research & Development Engineer, Quanser
- 2:40** **Discussion, Workshop Evaluation and Closing Remarks**
Bozenna Pasik-Duncan and **Bonnie Ferri**

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