



Preparing Tomorrow's Scientists and Engineers for the Challenges of the 21st Century

Special Panel Session on Education

Thursday, September 1, hrs 16:00 – 18:00

Organizer and Moderator: Bozenna Pasik-Duncan (University of Kansas)

Sponsored by the IFAC TC 9.4, Technical Committee on Control Education

This Special Panel Session on Education will focus on multiple challenges and opportunities that are presented to young investigators preparing for careers in science and engineering and will address important control engineering education issues of balancing math, science and technology in engineering education. The main questions to be addressed are: How do we integrate research and education? What we, scientists and educators, should do about cultivating student interest in science, math and engineering? Is it important for control engineering students to know math and science? Should control engineering education focus mostly on engineering? What kind of control engineering textbooks are popular among students? Do they need textbooks? Should engineering education focus mostly on technology?

The expected output of this session are recommendations to the control community on how to integrate education with research and how to attract science and engineering students to the field of automatic control.

Panelists:

- Karl Aström (Lund University)
- Siva Banda (Air Force Research Lab, Wright-Patterson AFB)
- Ruth Bars (Budapest University of Technology and Economics)
- Tamer Basar (University of Illinois, Urbana)
- Antonio Bicchi (University of Pisa)
- Christos Cassandras (Boston University)
- Sebastián Dormido (National University of Distance Education)
- Alexander Fradkov (IPME, Russian Academy of Sciences)
- Graham Goodwin (University of Newcastle)
- Vladimír Havlena (Czech Technical University)
- Stephen Kahne (Embry-Riddle Aeronautical University)
- Lennart Ljung (Linköpings Universitet)
- Jan Maciejowski (University of Cambridge)
- Iven Mareels (University of Melbourne)
- Roberto Tempo (IEIT-National Research Council, Torino)
- Ljubo Vlacic (Griffith University)