

Preliminary program

Systems and Control: Challenges in the 21st Century

Monday, 7 June 2004

8:45-9:45

Registration

9:45-10:00

Opening

10:00-10:45

Control Engineering: The Hidden Technology

K. Åström

University of California at Santa Barbara, USA, and Lund Institute of Technology, Sweden.

10:45-11:15

Coffee break

11:15-11:45

From Feedback Control to Real-Time Business Decision Making in the Process Industries

W. Marquardt, RWTH- Aachen University, Germany.

11:45-12:15

The Integration of Control and Optimization in Process Control

O.H. Bosgra, Delft Center for Systems and Control, the Netherlands.

12:15-12:45

The Well Kept Secret of Successful Automation

G. Ten Hacken, Shell Global Solutions International BV.

12:45-13:45

Lunch

13:45-14:30

Systems Theory in Systems Biology

B. De Moor, Katholieke Universiteit Leuven, Belgium.

14:30- 15:00

Discovering Genetic Regulatory Networks

M. Reinders, Delft University of Technology, the Netherlands.

15:00-15:30

Putting Energy in Control

A.J. van der Schaft, University of Twente, the Netherlands.

15:30-16:00

Tea break

16:00-16:30

Physical Measurements in the 21st Century

D. van Dyck, RUCA, University of Antwerp, Belgium.

16:30- 17:00

Data-Based Modeling for Control and Optimization

P.M.J. Van den Hof, Delft Center for Systems and Control, the Netherlands.

17:00-18:30

Lab visit and reception

18:30

Dinner

Tuesday, 8 June 2004

9:30-10:15

University Cooperation with Industry: Formats and Results

L. Ljung, Linköping University, Sweden.

10:30-11:00

Challenges in Advanced Motion Control

M. Steinbuch, Eindhoven University of Technology, the Netherlands.

11:00-11:15

Coffee break

11:15-11:45

Advanced Servo Control Research at Philips CFT: Status and Future Challenges

G. van Baars, Philips CFT- Mechatronics Research Dept., the Netherlands.

11:45-12:15

Drive by Wire

B. van Leeuwen, SKF Engineering & Research Centre, the Netherlands.

12:15-12:45

The Smart Highway - Modern Traffic Control

H. Hellendoorn, Delft Center for Systems and Control and Siemens, the Netherlands.

12:45-13:45

Lunch

13:45-14:30

The Future of Aerospace Control: Opportunities and Challenges

G. Balas, University of Minnesota, USA.

14:30- 15:00

Port-Based Control of Nonlinear Systems

S. Stramigioli, University of Twente, the Netherlands.

15:00-15:30

Systems and Control Inspired by Biology

R. van der Linde, Delft University of Technology and Altran Corporation, the Netherlands.

15:30-16:00

Dealing with Complexity via Exploitation of Structure in Control Design

M. Verhaegen, Delft Center for Systems and Control, the Netherlands.

16:00

Tea and closure