

Program

FIRST SWEDISH-ISRAELI CONTROL CONFERENCE

September 27 – September 28, 2004

Venue: Kollegiesalen, Valhallavägen 79, KTH, Stockholm.

September 26

18:00—20:00: Reception at Pausrummet, Department of Mathematics, Lindstedtsvägen 15, KTH, Stockholm

September 27

08:30—09:00: Registration

09:00—09:10: Opening

09:10—09:35: Alexander Ioffe: Nonsmooth analysis and optimal control.

09:35—10:00: Paul A. Fuhrmann: Behavior Homomorphism and System Equivalence.

10:00—10:30: Coffee Break

10:30—10:55 Damir Z. Arov: Generalized solutions of the Kalman-Yakubovich-Popov inequality for continuous-time systems.

10:55—11:20 Olof Staffans: Passive and Conservative Infinite-Dimensional Linear State/Signal Systems.

11:20—11:45 Leonid Mirkin: On the delay margin of dead-time compensators.

11:45—12:10 David Levanony: On the consistent filtering of convergent semimartingales.

- 12:10—13:40 Lunch at Restaurant Syster&Bror, Drottning Kristinas väg 24, KTH
- 13:40—14:05 Harry Dym: An augmented basic interpolation problem.
- 14:05—14:30 Rolf Johansson: Observer-Based Strict Positive Real (SPR) Systems.
- 14:30—14:55 Jonas Sjöberg: Estimating independent parameterized plant and noise models in nonlinear processes: possibilities of using linear model-on-demand in combination with instrumental variable techniques.
- 14:55—15:25: Coffee Break
- 15:25—15:50: Anders Lindquist: Kullback-Leibler approximation of spectral densities.
- 15:50—16:15 Karl-Henrik Johansson: Multi-robot coordination under limited communication.
- 16:15—16:40 Anton Shiriaev: Generating and Controlling Stable Walking Patterns in Bipedes.
- 16:40—16:50 Closure of day 1.
- 19.00 Banquet at Restaurant Syster&Bror, Drottning Kristinas väg 24, KTH.

September 28

- 09:05—09:30 Torkel Glad: Step responses of non-linear non-minimum phase systems.
- 09:30—09:55 Itzhack Y. Bar-Itzhack: Pseudo-Linear Kalman-Filter and its Application to Spacecraft Rate and Attitude Determination.
- 09:55—10:20 Itzhak Lewkowicz: Matrix sign function and the Nevanlinna-Pick Interpolation.

- 10:20—10:50 Coffee Break
- 10:50—11:15 Zalman J. Palmor: A New Automatic Identifier and Tuner for Decentralized Dead Time Compensators.
- 11:15—11:40 Håkan Hjalmarsson: Quantification of the Variance Error in Estimated Frequency Functions.
- 11:40—12:05 Andrej Ghulchak: Robust Stabilizability and Unstable Zero-Pole Cancellations - Analysis and Synthesis.
- 12:05—12:30 Arie Leizarowitz: Average-cost optimality for multichain MDPs, and overtaking optimality for unicast MDPs.
- 12:30—14:00 Lunch at Restaurant Syster&Bror, Drottning Kristinas väg 24, KTH.
- 14:00—14:25 Uri Shaked: Robust H_∞ Output-Feedback Control.
- 14:25—14:50 Ulf Jönsson: On the Robustness of Oscillator Networks
- 14:50—15:15 Yaakov Oshman: A New Estimation Error Lower Bound for Interruption Indicators in Systems with Uncertain Measurements
- 15:15—15:45 Coffee Break
- 15:45—16:10 Xiaoming Hu: Active Nonlinear State Observers.
- 16:10—16:35 Ilya Ioslovich: Seasonal Optimal Control Policy for Growth of Greenhouse Lettuce while Avoiding Health Hazards.
- 16:35—16:45 Closure of the conference.