Friday, October 19

Reception: 6:30-8:00pm

Saturday, October 20

Session 1: 8:30-9:00, Introduction and Welcome

Session 2: 9:00-11:00, Fundamentals

- Xenofon Koutsoukos, *Resilient Cooperative Control of Cyber-Physical Systems*
- Panos Antsaklis, Bill Goodwine and Vijay Gupta, *Passivity and Symmetry in the Control of Cyber-Physical Systems*
- Karl-Erik Årzén, *Simulation of Cyber-Physical Control Systems*
- Stefan Kowalewski, *Architectural Support for Agile Control Design in CPS*
- John S. Baras, *Components, Compositionality and Architectures for Networked CPS*

Coffee Break: 11:00-11:20

Session 3: 11:20-1:00, Applications

- Carlos Canudas-de-Wit, *CPS in Intelligent Transportation Systems: the Grenoble south ring show case*
- Eduardo F. Camacho, *Control of Solar Thermal Plants*
- João Sousa, *Coordination Challenges in Networked Vehicle Systems: Are We Missing Something?*
- Malcolm Smith, Classical Network Synthesis Revisited

Lunch Break: 1:00-2:00

Session 4: 2:00-4:00, Panel Discussion

Tentative Panel List:

- Alessandro Astolfi
- John S. Baras
- Sandra Hirche
- Karl Erik Johansson
- Francoise Lamnabhi-Lagarrigue

Coffee Break: 4:00-4:30

Session 5: 4:30-6:30, Control I

- Thomas Parisini and Marios Polycarpou, *Towards Safe and Reliable CPS: A Learning-Based Distributed Fault-Diagnosis Approach*
- Joerg Raisch, *Control Hierarchies and Tropical Algebras*
- Jan Maciejowski, *Some New Developments in Model Predictive Control*
- Kostas Kyriakopoulos, *A Framework for Aperiodic Model Predictive Control*
- Antonio Bicchi, *Trading off Feedforward and Feedback, Remote and Local in the Control of Complex Interconnected Plants*

Reception: 6:30-8:00

Sunday, October 21

Session 6: 9:00-11:00, Control II

- Arjan van der Schaft, *Bisimulation Theory for Multi-Modal Physical Systems*
- Claudio De Persis, *Coordination Control in a Cyberphysical Environment*
- Marika Di Benedetto, *Analysis and Control of Networked Embedded Systems*
- Eric Kerrigan, Number Representations for Embedding Optimization Algorithms in Cyber-Physical Systems
- Maurice Heemels, *Event-Triggered and Self-Triggered Control Design with Guaranteed Performance*