

# Hierarchical and Distributed Model Predictive Control, Algorithms and Applications

Organizers: *M. Diehl, R. Scattolini*  
*Sunday, August 28, 2011*





9:00 *M. Diehl, R. Scattolini*

KU Leuven, Politecnico di Milano

## **Opening**

9:15 *J. Rawlings*

University of Wisconsin

## **An overview of distributed MPC**

10:00 *M. Diehl, A. Kozma, C. Savorgnan*

KU Leuven

## **Hierarchical and Distributed Optimization Algorithms**

10:30 Break

11:00 *M. Farina, B. Picasso, R. Scattolini*

Politecnico di Milano

## **Design of hierarchical and distributed MPC control systems with robustness tools**

11:30 *D. Muñoz de la Peña, J.M. Maestre and D. Limón*

University of Seville

## **Distributed MPC based on game theory**

12:00 *M. Diehl*

KU Leuven

## **Interactive Session on Methods of Hierarchical and Distributed MPC**



14:00 *W. Marquardt, H. Scheu*

RWTH, Aachen

**Distributed model predictive control by primal decomposition**

14:30 *B. De Schutter*

TU Delft

**Hierarchical MPC with applications in transportation and infrastructure networks**

15:00 *D. Faille, F. Davelaar*

EDF

**Hierarchical and distributed control of a hydro power valley**

15:30 Break

16:00 *A. Tica, H. Guéguen, D. Dumur, D. Faille, F. Davelaar*

Supelec and EDF

**Application to start-up of Combined-Cycle Power Plant**

16:30 *L. Sanchez, M. A. Ridao*

INOCSA and University of Seville

**Distributed Control of Irrigation Canals**

17:00 *B. De Schutter*

TU Delft

**Closing**

