

## Workshop on

## Economic and Distributed Model Predictive Control

March 21<sup>st</sup>-March 22<sup>nd</sup>, 2016

### Organizers

Timm Faulwasser, Laboratoire d'Automatique, Ecole Polytechnique Fédérale de Lausanne and Institute for Applied Computer Science, Karlsruhe Institute of Technology, Germany

Colin Jones, Laboratoire d'Automatique, Ecole Polytechnique Fédérale de Lausanne

Karl Worthmann, Institut für Mathematik Technische Universität Ilmenau, Germany

### Location

Laboratoire d'Automatique, Ecole Polytechnique Fédérale de Lausanne, Room ME C2 405

## PROGRAM

Monday, March 21, 2016

14:00	Opening by Colin Jones, EPFL
14:10-15:05	Boris Houska, ShanghaiTech ALADIN---An Augmented Lagrangian Based Algorithm for Distributed Non-Convex Optimization and Control
15:05-16:00	Melanie Zeilinger, ETH Zürich Distributed Predictive Control: Changing Topologies and Certified Computation
16:00-16:30	Coffee break
17:15	Inaugural lectures: Daniel Kuhn and Semyon Malamud
Ca 20:00	Dinner, Rue Enning 10, 1003 Lausanne

Tuesday, March 22<sup>nd</sup>, 2016

9:00-10:00	Matthias Müller, Universität Stuttgart Economic MPC: the role of dissipativity and application potentials in cooperative control
10:00-10:30	Coffee break
10:30-11:30	Andrea Alessandretti Continuous-Time Model Predictive Control for Economic Optimization: Theory, Design, and Applications to Motion Control of Underactuated Vehicles
11:30-12:30	Mario Zanon, Chalmers University Tuning of Tracking MPC Based on Economic Criteria
12:30 – 14:00	Lunch
14:00 – 17:00	Speed dating between groups
Ca. 17:00	Closing Workshop