


Participants

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Optimal and Feedback Control of Differential Equations



Workshop

22 – 23 November 2016
University of Konstanz, D 406

Organizers: Luca Mechelli and Prof. Dr. Stefan Volkwein
Contact: luca.mechelli@uni-konstanz.de, stefan.volkwein@uni-konstanz.de



22th November:
8.50 – 17.30
23th November:
9.00 – 12.00

**Workshop on
Optimal and Feedback Control of Differential Equations**
University of Konstanz, Department of Mathematics and Statistics
November 22-23, 2016 Room 406

Schedule of the workshop

Tuesday, 22nd November 2016

08:50-09:00	Opening		
09:00-09:30	Christian Kirches	Heidelberg	<i>Modern SQP methods and QP hot-starting for nonlinear model predictive control</i>
09:30-09:45	Discussion		
09:45-10:15	Simon Pirkelmann	Bayreuth	<i>Economic model predictive control for time-varying systems</i>
10:15-10:45	Coffee break		
10:45-11:15	Robert O'Connor	Aachen	<i>Stabilizing feedback control for large-scale parameter-dependent systems</i>
11:15-11:30	Discussion		
11:30-12:00	Lorenz Pyta	Aachen	<i>Optimal feedback control of large scale system using reduced-order models</i>
12:00-14:30	Lunch break		
14:30-15:00	Carmen Gräßle	Hamburg	<i>POD basis updates for nonlinear PDE control</i>
15:00-15:15	Discussion		
15:15-15:45	Sebastian Peitz	Paderborn	<i>Multiobjective optimal control methods for the Navier-Stokes equations using reduced order modeling</i>
15:45-16:15	Coffee break		
16:15-16:45	Giulia Fabrini	Genova/Paris	<i>Coupling MPC and DP methods for an efficient solution of optimal control problems</i>
16:45-17:00	Discussion		
17:00-17:30	Jens Bremer	Magdeburg	<i>Reduced order modeling and optimization of CO₂ methanation reactors</i>
19:00	Dinner		

Wednesday, 23rd November 2016

09:00-09:30	Felix Lenders	Heidelberg	<i>Sequential linear equality constrained programming algorithms for model predictive control</i>
09:30-09:45	Discussion		
09:45-10:15	Sönke Rhein	Ulm	<i>Optimal control and actuator placement for multiphysics systems with electromagnetic and thermal coupling</i>
10:15-10:45	Coffee break		
10:45-11:15	Doris Fürtinger	New York	<i>iba</i>
11:15-11:30	Discussion		
11:30-12:00	Sabrina Rogg	Konstanz	<i>Computation of optimal EPO doses for patients with chronic kidney disease using a nonlinear model predictive control approach</i>
12:00	Closing & Lunch		