

4th KoMSO Challenge Workshop "Online & Offline Optimal Control of Chemical and Biotechnological Processes"

January 23, 2014 at BASF SE Ludwigshafen

Program

9:00	Registration and get together	
9:30	Opening	H. G. Bock S. Sauer A. Badinski
9:40	Challenges – Part 1	A. Badinski A. Walzenbach
10:00	Semi-Automatic Modeling and Model-Based Optimization and Control of Bioprocesses	R. King
10:40	Coffee Break	
11:00	Process Modeling for Online Model-Based Applications	C. C. Pantelides
11:40	Design of Chemical Processes in a Multi-Level Dynamic Optimization Framework	K. Sundmacher
12:20	Closing of the Morning Session	
	Lunch Break	
13:20	Challenges – Part 2	O. Naeem R. Jovanovic
13:35	Challenges – Part 3 Modeling for Optimization	A. Potschka

13:50	Nonlinear Model Predictive Control (NMPC) – Recent Advances and New Challenges	H. G. Bock J. P. Schlöder
14:30	Coffee Break	
14:50	Robustification of Optimizing Control by Multi-Stage Optimization	S. Engell
15:30	Global and Robust Optimization for Optimal Control	A. Mitsos
16:10	Coffee Break	
16:30	Pseudospectral Methods for Solving Dynamic Optimization Problems, and an Introduction to TOMLAB and PROPT	P. Rutquist
17:10	Model Predictive Control of Semi-Batch Polymerization Processes	T. S. Schei
17:50	Plenary Discussion	
18:20	End of Workshop	
19:00	Dinner	