

Programme oCPS Control Course, October 10-14 2016, TUM. Munich, Germany

Time	Monday, 10/10/16 Dynamic Systems and dynamic modelling	Tuesday, 11/10/16 State Space Control I	Wednesday 12/10/16 State Space Control II	Thursday 13/10/16 Model Predictive Control	Friday 14/10/16 Networked Control Systems (NCS)
09:00					
09:30	L1: Introduction, Switched Tank System	L3: Signals and Systems, Linearity, Causality, Time-invariance, Stationary Points, SVD	L6: Observability, State Estimation, Observer-based Control	L7: Introduction to Model Predictive Control (MPC), Optimization, MPC variants	L9: Introduction to NCS, Control over Communication Channels
10:00					
10:30					
11:00			Coffee break		Coffee break
11:30	Coffee break	Coffee break		Coffee break	
12:00	L2: Dynamic Modelling, DAE Systems (Part 1)	L4: Linearization, Eigenvalues, Eigenvectors, Stability ((Part 1)	T2: Eigenvalue Assignment, Observer Design	L8: Generalized Predictive Control, Constrained MPC (Part 1)	L10: Multi-Agent Systems
12:30					
13:00	Lunch	Lunch		Lunch	
13:30			Lunch		Lunch
14:00	L2: Dynamic Modelling, DAE Systems (Part 2)	L4: Linearization, Eigenvalues, Eigenvectors, Stability ((Part 2)		L8: Generalized Predictive Control, Constrained MPC (Part 2)	
14:30					
15:00	T1: Modelling (Part 1)	L5: Controllability, Eigenvalue Assignment by State Feedback, LQ Regulator (Part 1)	ITR Labtour / and or Siemens visit	T3: Examples on MPC design (Part 1)	
15:30					
16:00	Coffee break	Coffee break		Coffee break	
16:30	T1: Modelling (Part 1)	L5: Controllability, Eigenvalue Assignment by State Feedback, LQ Regulator (Part 1)		T3: Examples on MPC design (Part 2)	
17:00					
17:30					
18:00	Dinner Augustiner Bräustuben, Landsberger Str. 19, 80339 Munich			Dinner Löwenbräukeller, Nymphenburger Str. 2, 80335 Munich	
18:30					
19:00					