Program DISC Summer School on
Control for Cyber-Physical Systems

Center Parcs, Zandvoort, The Netherlands, June 1-4, 2015

Monday, June 1, 2015   **Introduction, Security and Hybrid Systems**

09.00 – 10.50	Registration	
10.50 – 11.00	Maurice Heemels / Alberto Bemporad	Opening Summer School by organisers
11.00 – 12.45	Paulo Tabuada / Ricardo Sanfelice	CPS: History, Overview, Applications and Challenges
12.45 – 14.00	Lunch	
14.00 – 15.45	Ricardo Sanfelice (1)	Dynamical Models of Cyber-physical Systems
15.45 – 16.15	Break	
16.15 – 18.00	Paulo Tabuada (1)	Security in CPS
19.30	Dinner	

Tuesday, June 2, 2015   **Hybrid and Networked Systems, Formal Methods**

08.45 – 10.30	Ricardo Sanfelice (2)	Control Theoretical Tools for Analysis and Design of CPSs
10.30 – 11.00	Break	
11.00 – 12.45	Girish Nair (1)	Nonstochastic Information Theory for Feedback Control
12.45 – 14.00	Lunch	
14.00 – 15.45	Paulo Tabuada (2)	Formal methods in CPS- A Control Perspective
15.45 – 16.15	Break	
16.15 – 18.00	Kim Larsen	Formal methods in CPS – A computer Science Perspective
19.30	Dinner	

Wednesday, June 3, 2015   **Networked Control and MPC**

08.45 – 10.30	Girish Nair (2)	Nonstochastic Information Theory for Feedback Control
10.30 – 11.00	Break	
11.00 – 13.45	Maurice Heemels	Resource-aware Control
12.45 – 14.00	Lunch	
14.00 – 15.45	Alberto Bemporad	MPC for CPS
15.45 – 16.15	Break	
16:15 – 18:00	Bart De Schutter	Multi-level MPC for Water and Traffic Applications
19.30	Dinner	

Thursday, June 4, 2015   **Multi-agent Systems and Industrial CP systems of systems**

08.45 – 10.30	Ming Cao	Multi-agent Systems I
10.30 – 11.00	Break	
11.00 – 12.45	Kanat Camlibel	Multi-agent Systems II
12.45 – 14.00	Lunch	
14.00 – 15.45	Sebastian Engell	CPS: An Industrial Perspective / Cyber-physical Systems of Systems (CPSos)
15.45 – 16.00	Closing	