

oCPS Fall School on Multidisciplinary CPS Design

(preliminary program)

Monday October 28, 2019		
12.00-13.30	<i>Lunch and registration</i>	
13.45-14.00	<i>Opening</i>	Prof. Twan Basten
14.00-15.15	Security in CPS (TBC)	Prof. Karl Henrik Johansson
15.15-15.45	<i>Break</i>	
15.45-17.00	Efficient Deep Learning	Prof. Henk Corporaal
17.00-17.30	Approximate Computing for Energy Efficient Computing	Sayandip De
17.30-19.30	<i>Welcome drinks and snacks</i>	
Tuesday October 29, 2019		
09.00-10.15	Event-Triggered Control for Networked Systems	Prof. Maurice Heemels
10.15-10.45	Networked Supervisory Control of Cyber Physical Systems	Aida Rashidinejad
10.45-11.15	<i>Break</i>	
11.15-12.00	Model-driven Performance Engineering of Flexible Manufacturing Systems	Prof. Twan Basten
12.00-12.30	Middleware and Abstraction Generation for Information Propagation between Heterogeneous Models	Marina Rantanen Mod��er
12.30-14.00	<i>Lunch – poster session</i>	
14.00-14.45	Design and Analysis of Image-based Control Systems	Dr. Dip Goswami
14.45-15.15	Designing Image-based Control Systems Considering Workload Variations	Sajid Mohamed
15.15-15.45	<i>Break</i>	
15.45-17.30	<i>Demo market</i>	
17.30	<i>End of day 2</i>	
Wednesday October 30, 2019		
09.00-10.15	Model Predictive Control for Cyber-Physical Systems	Prof. Alberto Bemporad
10.15-10.45	An Efficient Non-Condensed Approach for Model Predictive Control	Nilay Saraf
10.45-11.15	<i>Break</i>	
11.15-12.00	Mode-Predictive Control and Reinforcement Learning: Merits and Disadvantages	Prof. Bart De Schutter
12.00-12.30	Generating Requirements out of Thin Air: Automated Feature Identification for New Apps	Tahira Iqbal
12.30-14.00	<i>Lunch – poster session</i>	
14.00-15.15	Extracting Interfaces from Software Components via Model Learning	Prof. Frits Vaandrager
15.15- ...	<i>oCPS Social Event and Dinner</i>	
Thursday October 31, 2019		
09.00-10.15	Design of the Communication Structure of Cooperative Adaptive Cruise Controllers for Vehicle Platoons	Prof. Jan Lunze
10.15-10.45	Control of Vehicle Platoons and Traffic Dynamics: Catch-up Coordination and Congestion Dissipation	Mladen ��i��i��
10.45-11.15	<i>Break</i>	
11.15-12.00	Self-aware CPS (TBC)	Prof. Axel Jantsch
11.15-12.30	Runtime Execution Control for Mixed-Criticality Systems	D��avid Juh��asz
12.30-14.00	<i>Lunch</i>	
14.00-15.15	Learning for Control. A Practitioner’s View	Prof. Manfred Morari
15.15-15.30	<i>Closing</i>	