

ICCPS 2011, Chicago, USA
 Work in Progress (WiP) Session
 Tuesday, April 12th, 2011, 3:30pm – 5:00pm

Session Program

Presentation (6 minutes) + Q/A (2 minutes)

3:30pm-3:31pm	Introduction to the WiP Session	
<i>CPS Foundations</i>		
3:31pm-3:39pm	Enforcing safety of cyberphysical systems using flatness and abstraction	Alessandro Colombo and Domitilla Del Vecchio
3:40pm-3:48pm	A Co-Simulation Approach for Control Performance Analysis during Design Space Exploration of Cyber-Physical Systems	Nina Mühleis, Michael Glaß, Liyuan Zhang and Jürgen Teich.
<i>Modeling and Simulation of CPS</i>		
3:49pm-3:57pm	Toward Online Hybrid Systems Model Checking of Cyber-Physical Systems Time-Bounded Short-Run Behavior	Lei Bu, Qixin Wang, Xin Chen, Linzhang Wang, Tian Zhang, Jianhua Zhao and Xuandong Li
3:58pm-4:06pm	The problem with time in mixed continuous/discrete time modelling	Kenneth C. Rovers, Jan Kuper and Gerard J.M. Smit.
4:07pm-4:15pm	A Logic-based Modeling and Verification of CPS	Neda Saeedloei, Gopal Gupta
4:16pm-4:24pm	A Core Language for Executable Models of Cyber Physical Systems	Walid Taha, Paul Brauner, Robert Cartwright, Veronica Gaspes , Aaron Ames and Alexandre Chapoutot
4:25pm-4:33pm	Toward Autonomous Vehicle Safety Verification from Mobile Cyber-Physical Systems Perspective	Sailesh Kandula, Tridib Mukherjee and Sandeep Gupta.
<i>Applications and Technologies for CPS</i>		
4:34pm-4:42pm	Cyber-Physical Systems for Next Generation Intelligent Buildings	Andreas Savvides, Yannis Paschalides and Michael Caramanis.
4:43pm-4:51pm	High Confidence Embedded Software Design: A Quadrotor Helicopter Case Study	Zhenkai Zhang, Joseph Porter, Nicholas Kottenstette, Xenofon Koutsoukos and Janos Sztipanovits.
4:52pm-5:00pm	Passivity-Based Self-Triggered Control: A Case Study On The Trajectory Tracking Control Of A Robotic Manipulator Over Wireless Network	Emeka Eyisi and Xenofon Koutsoukos.