

DFG Priority Programme 1914 – Cyber-Physical Networking

2nd Plenary Meeting

Thursday, October 19th, 2017

Lecture Hall 9222 (Building E3, 2nd floor), Computer Science Center, Ahornstr. 55, 52074 Aachen

10:00 – 10:45	Arrival
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10:45 – 11:00	Welcome Address <i>Sandra Hirche (TU Munich), Klaus Wehrle (RWTH Aachen University)</i>
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11:00 – 11:20	Model-Predictive Cyber-Physical Networking <i>Olaf Stursberg (University of Kassel)</i> <i>Gerhard Wunder (FU Berlin)</i>
11:20 – 11:45	NICCI: Network-Informed Control – Control-Informed Network <i>Rolf Findeisen (Otto von Guericke University Magdeburg)</i> <i>Holger Karl (University of Paderborn)</i> <i>Daniel Quevedo (University of Paderborn)</i>
11:45 – 12:00	Measurements for Composable Performance Models of Cyber-Physical Network Components <i>Georg Carle (TU Munich)</i>
12:00 – 12:20	Integrated Controller Design Methods and Communication Services for Networked Control Systems <i>Frank Allgöwer (University of Stuttgart)</i> <i>Kurt Rothermel (University of Stuttgart)</i>

12:20 – 13:00	Lunch
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13:00 – 13:20	Analysis and Synthesis of Combined Cooperative Control and Topology Control over Wireless Network Models <i>Hannes Frey (University of Koblenz-Landau)</i> <i>Herbert Werner (TU Hamburg-Harburg)</i>
13:20 – 13:40	Cooperative Consensus-Based Control of Multi-Agent Systems over Wireless Channels <i>Jörg Raisch (TU Berlin)</i> <i>Slawomir Stanczak (TU Berlin)</i>
13:40 – 14:00	Optimal Co-Design of Wireless Resource Management and Multi-Loop Networked Control <i>Sandra Hirche (TU Munich)</i> <i>Wolfgang Kellerer (TU Munich)</i>
14:00 – 14:20	Event-based Wireless Control for Cyber-Physical Systems <i>Sebastian Trimpe (Max Planck Institute for Intelligent Systems, Tübingen)</i> <i>Marco Zimmerling (TU Dresden)</i>

14:20 – 14:30	Short Break
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14:30 – 15:30	Plenary Discussion, Planning of Collaborations and Winter School <i>Moderation: Sandra Hirche (TU Munich), Klaus Wehrle (RWTH Aachen University)</i>
15:30 – 15:50	Coffee Break
15:50 – 16:10	REFLEXES: A Co-Designed Architecture for In-Network Control <i>Sandra Hirche (TU Munich)</i> <i>Klaus Wehrle (RWTH Aachen University)</i>
16:10 – 16:30	CoCPN: Cooperative Cyber-Physical Networking <i>Uwe D. Hanebeck (Karlsruhe Institute of Technology)</i> <i>Martina Zitterbart (Karlsruhe Institute of Technology)</i>
16:30 – 16:50	Latency and Resilience-Aware Networking <i>Thorsten Herfet (Saarland University)</i> <i>Wolfgang Schröder-Preikschat (FAU Erlangen-Nürnberg)</i>
16:50 – 17:00	Closing Remarks <i>Sandra Hirche (TU Munich), Klaus Wehrle (RWTH Aachen University)</i>
