DFG Priority Program 1914 – Cyber-Physical Networking
3rd Plenary Meeting – Tentative Program

Location: Max Planck Institute for Intelligent Systems, Tübingen Campus; Max-Planck-Ring 4, 72076 Tübingen, https://is.mpg.de/contact

Getting in: The main entrance of the MPI (Max-Planck-Ring 4) is usually locked. During main arrival times on Thu and Fri, someone should be at the front door to let you in. If you find the door locked at other times, please call Ms. Julia Braun (+49.7071.601.1757).

Important: Please sign up in the doodle (https://doodle.com/poll/wygavfus28s5txry) until 15 November 2018 if you plan to attend. The program is tentative – please inform Sebastian Trimpe (trimpe@is.mpg.de) in case of any conflicts.

Thursday, 29 November 2018

12:00 - 13:00  Arrival & Lunch

13:00 - 13:15  Welcome address & goals of the meeting
   Klaus Wehrle (RWTH Aachen University), Sandra Hirche (TU Munich), Sebastian Trimpe (MPI for Intelligent Systems, Stuttgart/Tübingen)

13:15 – 15:00  Presentations by Research Groups I (incl. 5 min Q&A)
   Rolf Findeisen (Otto von Guericke University Magdeburg), Holger Karl (University of Paderborn), Daniel Quevedo (University of Paderborn)
13:40 – 14:00  CoCPN: Cooperative Cyber-Physical Networking
   Uwe D. Hanebeck (Karlsruhe Institute of Technology), Martina Zitterbart (Karlsruhe Institute of Technology)
14:00 – 14:20  Model-Predictive Cyber-Physical Networking
   Olaf Stursberg (University of Kassel), Gerhard Wunder (FU Berlin)
14:20 – 14:40  Cooperative Consensus-Based Control of Multi-Agent Systems over Wireless Channels
   Jörg Raisch (TU Berlin), Slawomir Stanczak (TU Berlin)
14:40 – 15:30  Break

15:30 – 16:30  SPP1914 Overview
15:30 – 16:30  Overview first phase (activity review and plans) and outlook on second phase
   Klaus Wehrle (RWTH Aachen University), Sandra Hirche (TU Munich), Damian Dudek (DFG)
16:30 – 18:00  Bar camp reports / discussions
16:30 – 17:15  Reports from Arosa bar camp groups (t.b.d.)
17:15 – 18:00  Discussion (bar camps, benchmarking, general topics)

19:30  Dinner at Restaurant Wurstküche (self-pay)
       Am Lustnauer Tor 8, 72074 Tübingen, https://www.wurstkueche.com/

Friday, 30 November 2018

9:00 - 10:15  Presentations by Research Groups II (incl. 5 min Q&A)
9:00 – 9:20  EcoCPS: Event-based Wireless Control for Cyber-Physical Systems
             Sebastian Trimpe (Max Planck Institute for Intelligent Systems, Stuttgart/Tübingen), Marco Zimmerling (TU Dresden)
             Sandra Hirche (TU Munich), Wolfgang Kellerer (TU Munich)
9:40 – 10:00  Integrated Controller Design Methods and Communication Services for Networked Control Systems
               Frank Allgöwer (University of Stuttgart), Kurt Rothermel (University of Stuttgart)
10:00 – 10:15  Measurements for Composable Performance Models of Cyber-Physical Network Components
               Georg Carle (TU Munich)

10:15 – 11:00  Break

11:00 – 12:00  Presentations by Research Groups III (incl. 5 min Q&A)
11:00 – 11:20  Analysis and Synthesis of Combined Cooperative Control and Topology Control over Wireless Network Models
               Hannes Frey (University of Koblenz-Landau), Herbert Werner (TU Hamburg-Harburg)
11:20 – 11:40  REFLEXES: A Co-Designed Architecture for In-Network Control
               Sandra Hirche (TU Munich), Klaus Wehrle (RWTH Aachen University)
11:40 – 12:00  Latency and Resilience-Aware Networking
               Thorsten Herfet (Saarland University), Wolfgang Schröder-Preikschat (FAU Erlangen-Nürnberg)

12:00 – 12:30  Closing
12:00 – 12:30  Closing remarks and discussion
               Klaus Wehrle (RWTH Aachen University), Sandra Hirche (TU Munich)

12:30  Lunch & Departure