Institute of Automation and Control
Graz University of Technology

20. Styrian Workshop on Automatic Control

September 11-13, 2017, Schloss Retzhof, Austria

CONFERENCE PROGRAM

Monday 11.09.2017

17:00 – 18:00	Registration
18:00	Dinner

Tuesday 12.09.2017

08:30 – 08:40	Opening
08:40 – 09:20	Johannes Schiffer, Florian Dörfler, Emilia Fridman *Robustness of Distributed Frequency Control in Modern Power Systems: Time Delays & Dynamic Communication Topology*
09:20 – 10:00	Christoph Weise, Kai Wulff, Johann Reger *Fractional-Order Observer for Integer-Order LTI Systems*
10:00 – 10:30	Coffee Break
10:30 – 11:10	Nikolaus Euler-Rolle, Stefan Jakubek *Longitudinal tunnel ventilation control: Dynamic feedforward control and non-linear disturbance observation*
11:10 – 11:50	Anastasiia Galkina, Kurt Schlacher *Model Predictive Control with Flatness Based Linear Programming for the Single Mast Stacker Crane*
12:00 – 13:30	Lunch
14:00 – 22:00	Social Program

Wednesday 13.09.2017

08:30 – 09:10	Gernot Druml *Estimation of the Earthfault Distance in a 110-kV-Network using Traveling Waves – Results from Field Tests*
09:10 – 09:50	Florian Kraus, Reinhard Reichel *Automated Design, Instantiation and Qualification of complex, highly fault tolerant Avionic Systems*
09:50 – 10:30	Daniel Watzenig *Multi-sensor data fusion for automated driving*

10:30 – 11:00	Coffee Break
11:00 – 11:40	Daniel Muschick, Viktor Unterberger, Markus Gölles *Model-based control of hydronic networks using graph theory*
11:40 – 12:20	Richard Seeber, Markus Gölles, Nicolaos Dourdoumas, Martin Horn *Model-Based Reference Shaping for Biomass Grate Boilers*
12:30 – 14:00	Lunch
14:00 – 14:40	Leonid Fridman *Is It Reasonable to Substitute Discontinuous SMC by Continuous HOSMC?*
14:40 – 15:20	Alexander Barth, Johann Reger *Adaptive Extension for Higher Order Sliding Mode Controllers*
15:20 – 15:50	Coffee Break
15:50 – 16:30	Mohammad Ali Golkani, Markus Reichhartinger, Martin Horn *Design of Saturated Sliding Mode Control with Continuous Actuating Signal*
16:30 – 17:10	Kurt Schlacher, Markus Schöberl *A Check of Flatness for time continuous Systems by Computer Algebra Methods*