

23rd Styrian Workshop on Automatic Control

September 9–11, 2024, Schloss Retzhof, Austria

PROGRAM

Monday Sep 9, 2024

14:00 – 15:00	Registration + coffee
15:00 – 15:05	Opening
15:05 – 15:45	Daniel Schwingshackl <i>Model Predictive Control of a Metal Hydride Hydrogen Storage</i>
15:45 – 16:25	Hamid Didari, Gerald Steinbauer-Wagner <i>A Path Following Model Predictive Controller for Autonomous Truck Navigation in Off-Road Environments</i>
16:25 – 16:50	Coffee break
16:50 – 17:30	Stefan Jakubek, Christoph Hametner, Alexander Schirrer <i>Innovative control to suppress sloshing in fast transport of liquids</i>
17:30 – 18:10	Thomas Reiter-Nigitz, Johannes Niederwieser, Uwe Poms, Dominik Wickenhauser, Stefan Spirk, Markus Gölles <i>Modelling, Control and Monitoring of a Renewable Flow Battery</i>
18:30	Dinner

Tuesday Sep 10, 2024

08:30 – 09:10	Alexander Schaum <i>Observer design for nonlinear heat and mass transfer systems</i>
09:10 – 09:50	Klaus Röbenack, Daniel Gerbet <i>Observability and High Gain Observer Design for Polynomial Systems</i>
09:50 – 10:20	Coffee break
10:20 – 11:00	Christoph Weise, Kai Wulff, Johann Reger <i>Generalized Hybrid-Integrator-Gain System</i>
11:00 – 11:40	Jakob Rehrl <i>Efficient operation of pharmaceutical processes via model based approaches</i>
12:00	Lunch
16:00	Social program (in Graz)
18:00	Dinner (in Graz)

Wednesday Sep 11, 2024

08:30 – 09:10	Andrej Sarjas, Dusan Gleich <i>Event-triggered control approach for time-critical dynamic systems</i>
09:10 – 09:50	Katarina Stanojevic <i>A Lyapunov Function-Based Control Concept for Networked Systems</i>
09:50 – 10:30	Coffee break + check out option
10:30 – 11:10	Niclas Tietze, Kai Wulff, Johann Reger <i>Local stability analysis of sliding-mode control approaches within the model-following control architecture</i>
11:10 – 11:50	Benedikt Andritsch, Stefan L. Hölzl, Stefan Koch, Markus Reichhartinger, Martin Horn <i>Super-Twisting Control in Practical Applications: An Alternative to PI-Control?</i>
12:00	Lunch