

22nd Styrian Workshop on Automatic Control

September 5-7, 2022, Schloss Retzhof, Austria

CONFERENCE PROGRAM

Monday Sep 5, 2022

13:00	Lunch and Registration
14:30 – 14:40	Opening
14:40 – 15:20	Jakob Rehr, Selma Celikovic, Johannes Khinast and Martin Horn <i>Model based control applied to a continuous pharmaceutical “from powder to tablet” wet granulation line</i>
15:20 – 16:00	Kevin Schwarzingger <i>Control and Modelling of Plastic Extrusion Machines</i>
16:00 – 16:40	Michael Ruderman <i>Application of motion control with optimal nonlinear damping and convergent dynamics</i>
18:00	Dinner

Tuesday Sep 6, 2022

08:40 – 09:20	Valentin Kaisermayer, Daniel Muschick, Markus Gölles, Wolfgang Rosegger, Jakob Binder and Joachim Kelz <i>Application of Optimization-based Energy Management Systems for Interconnected District Heating Networks</i>
09:20 – 10:00	Robert Schürhuber, Carina Lehmal and Ziqian Zhang <i>Test-oriented Stability mechanisms for the Future of Electrical Power</i>
10:00 – 10:40	Sandra Staudt, Viktor Unterberger, Daniel Muschick, Michael Wernhart and René Rieberer <i>Model-based control of absorption heat pumping systems</i>
10:40 – 11:10	Coffee Break

11:10 – 11:50	Tobias Posielek and Johann Reger <i>Observability Studies for Spacecraft Attitude Determination based on Temperature Data</i>
11:50 – 12:30	Martin Kleindienst <i>Observer-Based Temperature Estimation in Thermal Processing of Semiconductor Wafers</i>
12:30 – 14:30	Lunch
14:30 – 15:10	Stefan Jakubek and Christoph Hametner <i>Forecasting of COVID-19 Hospital Occupancy Using Differential Flatness</i>
15:10 – 15:50	Julian Willkomm, Kai Wulf and Johann Reger <i>Quantitative robustness analysis and control design of model-following control for nonlinear systems subject to model uncertainties</i>
15:50 – 16:30	Thomas Baumgartner, Richard Seeber, Robert Bauer and Martin Horn <i>Compensating Frequency Converter Nonlinearity</i>
18:00	Dinner

Wednesday Sep 7, 2022

Social Program (details will be announced in the opening session)	
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