Begutachtete Kongressbeiträge


4. Kletting, Marco; Rauh, Andreas; Aschemann, Harald; Hofer, Eberhard P.: Consistency Techniques for Simulation of Wastewater Treatment Processes with Uncertainties, DVD-Proc. of the IFAC World Congress 2005, Prague, Czech Republic.

5. Aschemann, Harald; Rauh, Andreas; Kletting, Marco; Hofer, Eberhard P.; Gennat, Marc; Tibken, Bernd: Interval Analysis and Nonlinear Control of Wastewater Plants with Parameter Uncertainty, DVD-Proc. of the IFAC World Congress 2005, Prague, Czech Republic.


28. Aschemann, Harald; Rauh, Andreas: *Nonlinear Control and Disturbance Compensation for Underactuated Ships Using Extended Linearisation Techniques*. Proc. of 8th IFAC Conference on Control


60. Cichy, Błażej; Gałkowski, Krzysztof; Rauh, Andreas; Aschemann, Harald: *Iterative Learning Control of the Electrostatic Microbridge Actuator*, In Proc. of European Control Conference ECC13, Zurich, Switzerland, 2013.


69. Paszke, Wojciech; Aschemann, Harald; Rauh, Andreas; Gałkowski, Krzysztof; Rogers, Eric: *Two-Dimensional Systems Based Iterative Learning Control for High-Speed Rack Feeder Systems*, In Proc. of 8th Intl. Workshop on Multidimensional Systems nDS’13, Erlangen, Germany, 2013.


77. Rauh, Andreas; Senkel, Luise; Gebhardt, Jovanka; Aschemann, Harald: *Stochastic Methods for the Control of Crane Systems in Marine Applications*, Proc. of European Control Conference ECC14, Strasbourg, France, 2014.


86. Rauh, Andreas; Krägenbring, Ole; Pröhl, Lukas; Aschemann, Harald: *Sensitivity-Based Approaches for an Efficient Design of Learning-Type Controllers of a Flexible High-Speed Rack Feeder System*, Proc. of IEEE Multi-Conference on Systems and Control, Antibes, France, 2014.


88. Chu, Bing; Rauh, Andreas; Aschemann, Harald; Rogers, Eric: *Experimentally Verified Constrained ILC for a High Speed Rack Feeder*, Proc. of American Control Conference, ACC, Chicago, IL, USA, 2015.


90. Rauh, Andreas; Senkel, Luise; Aschemann, Harald: *Reliable Sliding Mode Approaches for the Temperature Control of Solid Oxide Fuel Cells with Input and Input Rate Constraints*, Proc. of 1st IFAC Conference on Modelling, Identification and Control of Nonlinear Systems, MICNON 2015, St. Petersburg, Russia, 2015.


97. Rauh, Andreas; Aschemann, Harald: *Sensitivity-Based Approaches for an Efficient Design of Feedforward Controllers and Parameter Estimators for a Distributed Heating System*, Proc. of 21st IEEE


103. Cichy, Błażej; Augusta, Petr; Gałkowski, Krzysztof; Rauh, Andreas; Aschemann, Harald; Rogers, Eric; Rehák, Branislav: *Modeling and Iterative Learning Control of a Circular Deformable Mirror*, Proc. of the IFAC World Congress 2017, Toulouse, France.

104. Cichy, Błażej; Gałkowski, Krzysztof; Rauh, Andreas; Aschemann, Harald; Rogers, Eric: *A Practically Tractable Iterative Learning Control Scheme for a Circular Deformable Mirror*, Proc. of 10th Intl. Workshop on Multidimensional (nD) Systems, nDS 2017, Zielona Góra, Poland.


112. Kostin, Georgy V.; Rauh, Andreas; Aschemann, Harald: *Modeling, Experimental Identification, and Optimization of Heat Transfer in a Metal Bar Controlled by Peltier Elements*, In Proc. of Vienna

114. Rauh, Andreas; Schmidt, Matthew; Tiede, Susann; Klenke, Cornelia: Stochastic Filter Techniques in Combination with Sliding Mode Differentiators As the Basis for a Reliable Neural Network-Based Recognition of Phonemes in Speech Signals, 2018 European Control Conference, Limassol, Cyprus, 2018.

115. Mandra, Sławomir; Gałkowski, Krzysztof; Rogers, Eric; Aschemann, Harald; Rauh, Andreas: Iterative Learning Control of a Distributed Heating System Described by a Non-Minimum Phase Model, Proc. of 2018 American Control Conference, Milwaukee, USA, 2018.


126. Ifqir, Sara; Rauh, Andreas; Kersten, Julia; Ichalal, Dalil; Ait-Oufroukh, Naima; Mammar, Saïd: Interval Observer-Based Controller Design for Systems with State Constraints: Application to Solid Oxide


133. Kersten, Julia; Rauh, Andreas; Aschemann, Harald: Application-based Analysis of Transformations of Uncertain Dynamical Systems Into a Cooperative Form, European Control Conference, St. Petersburg, Russia, 2020. Under review.

134. Rauh, Andreas; John, Kristine; Bruschewski, Martin; Grundmann, Sven: Comparison of Two Different Interval Techniques for Analyzing the Influence of Measurement Uncertainty in Compressed Sensing for Magnet Resonance Imaging, European Control Conference, St. Petersburg, Russia, 2020. Under review.


136. Hildebrandt, Erik; Kersten, Julia; Rauh, Andreas; Aschemann, Harald: Robust Interval Observer Design for Fractional-Order Models with Applications to State Estimation of Batteries, IFAC World Congress, Berlin, Germany, 2020. Under review.

137. Cont, Noël; Frenkel, Wiebke; Kersten, Julia; Rauh, Andreas; Aschemann, Harald: Interval-Based Modeling of High-Temperature Fuel Cells for a Real-Time Control Implementation Under State Constraints, IFAC World Congress, Berlin, Germany, 2020. Under review.