

Lfd.	Titel	Jahr
155.	T. Grunert, R. Dehnert, A. Kummert, B. Tibken and S. Fielsch, "Gain Scheduled Control of Bounded Multilinear Discrete Time Systems with Uncertainties: An Iterative LMI Approach," 2019 IEEE 58th Conference on Decision and Control (CDC), Nice, France, 2019, pp. 5199-5205.	2019
154	Malerczyk, J.; Lerch, S.; Tibken, B.; Kummert, A. : Impact of intelligent agents on the avoidance of spontaneous traffic jams on two-lane motorways. International Conference on Transportation and Traffic Engineering (ICCTE), Auckland, New Zealand	2019
156.	Paradowski, T.; Lerch, S.; Damaszek, M.; Dehnert, R.; Tibken, B. Observability of Uncertain Nonlinear Systems Using Interval Analysis. Algorithms 2020, 13, 66.	2020
157.	R. Dehnert, S. Lerch and B. Tibken, "Robust Anti Windup Controller Synthesis of Multivariable Discrete Systems with Actuator Saturation," 2020 IEEE Conference on Control Technology and Applications (CCTA), Montreal, QC, Canada, 2020, pp. 581-587	2020
155	Rauh, A.; Dehnert, R.; Romig, S.; Lerch, S.; Tibken, B. Iterative Solution of Linear Matrix Inequalities for the Combined Control and Observer Design of Systems with Polytopic Parameter Uncertainty and Stochastic Noise. Algorithms 2021, 14, 205.	2021
158.	J. Tacke, R. Dehnert, S. Lerch and B. Tibken, "Modelling of Ionization Current in a Flame based on Hammerstein Models," 2021 IEEE Conference on Control Technology and Applications (CCTA), 2021, pp. 430-434	2021
159.	R. Dehnert, S. Lerch, T. Grunert, M. Damaszek and B. Tibken, "A Less Conservative Iterative LMI approach for Output Feedback Controller Synthesis for Saturated Discrete-Time Linear Systems," 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 93-100	2021
156	S. Lerch, R. Dehnert, M. Damaszek and B. Tibken, "Static Output Feedback Controller Design of Discrete Systems Subject to Actuator Magnitude and Rate Saturation," 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 395-400	2021
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157	S. Lerch, R. Dehnert, M. Rosik and B. Tibken, "Minimizing Oscillations for Magnitude and Rate-Saturated Discrete-Time Systems by a DR Region Pole Placement," 2022 10th International Conference on Systems and Control (ICSC), 2022, pp. 244-249	2022
162.	M. Rosik, R. Dehnert, S. Lerch, J. Sonnenschein and B. Tibken, "Robust Observer-Based Adaptive High-Gain Feedback Design for Uncertain Saturated Discrete-Time Linear Systems," 2022 10th International Conference on Systems and Control (ICSC), 2022, pp. 489-495	2022
163.	M. Rosik, R. Dehnert, S. Lerch and B. Tibken, "Observability Analysis of Nonlinear Input-Linear Systems Based on Lie Derivations Using Interval Arithmetic", 11th International Conference on Systems and Control (ICSC), 2023	2023
158	R. Dehnert, S. Lerch, M. Rosik, A. Rauh, B. Tibken, "Design of Robust Output Feedback Controllers for Discrete-Time Systems with Polynomial Uncertainties", 11th International Conference on Systems and Control (ICSC), 2023	2023
164.	R. Deisling, L. Ackerschott, R. Dehnert, M. Rosik, B. Tibken, "Safety-Critical Combustion Control for Gas Boilers Using Control Barrier Functions", 2024 32nd Mediterranean Conference on Control and Automation (MED), 2024	2024
165.	R. Dehnert, M. Rosik, R. Deisling, L. Ackerschott, R. Dilji, B. Tibken, "Joint Design of Disturbance Observer-Based Feedback Controllers for Discrete-Time Systems Subject to Actuator Faults", 2024 32nd Mediterranean Conference on Control and Automation (MED), 2024	2024
159	L. Ackerschott, R. Deisling, M. Rosik, R. Dehnert, B. Tibken, "Frequency-Based Coupling Method for Modeling of Mechatronic Machine Axis", 2024 32nd Mediterranean Conference on Control and Automation (MED), 2024	2024

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167.	R. Dehnert, M. Rosik, S. Lerch, A. Rauh, B. Tibken, Robust Observer-Based Control Design for Stochastic Discrete-Time Quasilinear Systems via LMI, IEEE Transactions on Automatic Control (TACON), 2024 (under Review)	2024