Richard Seeber

List of Publications by Year
in descending order

		1307594	839539
33 papers	**373** citations	**7** h-index	**18** g-index
33 all docs	**33** docs citations	**33** times ranked	**257** citing authors

#	Article	IF	Citations
1	Stability proof for a well-established super-twisting parameter setting. Automatica, 2017, 84, 241-243.	5.0	110
2	A Novel Method to Estimate the Reaching Time of the Super-Twisting Algorithm. IEEE Transactions on Automatic Control, 2018, 63, 4301-4308.	5.7	58
3	Conditioned Super-Twisting Algorithm for systems with saturated control action. Automatica, 2020, 116, 108921.	5.0	35
4	Robust exact differentiators with predefined convergence time. Automatica, 2021, 134, 109858.	5.0	31
5	Necessary and sufficient stability criterion for the super-twisting algorithm. , 2018, , .		17
6	A Lyapunov Function for an Extended Super-Twisting Algorithm. IEEE Transactions on Automatic Control, 2018, 63, 3426-3433.	5.7	14
7	Guaranteeing Disturbance Rejection and Control Signal Continuity for the Saturated Super-Twisting Algorithm. , 2019, 3, 715-720.		14
8	Saturated Lipschitz Continuous Sliding Mode Controller for Perturbed Systems With Uncertain Control Coefficient. IEEE Transactions on Automatic Control, 2021, 66, 3885-3891.	5.7	13
9	Detectability Analysis and Observer Design for Linear Time Varying Systems. , 2020, 4, 331-336.		10
10	Innovative Interaction Approach in IMM Filtering for Vehicle Motion Models With Unequal States Dimension. IEEE Transactions on Vehicular Technology, 2022, 71, 3579-3594.	6.3	9
11	Three counterexamples to recent results on finite- and fixed-time convergent controllers and observers. Automatica, 2020, 112, 108678.	5.0	7
12	Reference shaping for model-based control of biomass grate boilers. Control Engineering Practice, 2019, 82, 173-184.	5.5	6
13	Erweiterung eines modellbasierten Regelungskonzepts für Biomassefeuerungsanlagen. Automatisierungstechnik, 2014, 62, 891-902.	0.8	5
14	Exact State Reconstruction for LTI-Systems with Non-Differentiable Unknown Inputs. , 2019, , .		5
15	Integral state-feedback control of linear time-varying systems: A performance preserving approach. Automatica, 2022, 136, 110000.	5.0	5
16	Unknown input observer design for linear time-invariant multivariable systems based on a new observer normal form. International Journal of Systems Science, 2022, 53, 2180-2206.	5.5	5
17	A Trisection Algorithm for Estimating Distance Measures for Strong Observability and Strong Detectability. IEEE Transactions on Automatic Control, 2023, 68, 478-485.	5.7	4
18	Optimal Lyapunov-Based Reaching Time Bounds for the Super-Twisting Algorithm. , 2019, 3, 924-929.		3

#	Article	IF	Citations
19	Distance Measures for Strong Observability and Strong Detectability of Systems With Direct Feedthrough. , 2021, 5, 565-570.		3
20	Efficient Temperature Profile Estimation for Silicon Wafers based on Subspace Observers. IFAC-PapersOnLine, 2020, 53, 5952-5957.	0.9	3
21	Lyapunovâ€based saturated continuous twisting algorithm. International Journal of Robust and Nonlinear Control, 2021, 31, 3513-3527.	3.7	3
22	Ein ModalmaÃŸ fÃ¼r Beobachtbarkeit und perspektivische Beobachtbarkeit linearer zeitinvarianter Systeme. Automatisierungstechnik, 2017, 65, 683-694.	0.8	2
23	Optimal Tuning of the Saturated Super-Twisting Algorithm. , 2019, , .		2
24	Differentiator for Noisy Sampled Signals With Best Worst-Case Accuracy. , 2022, 6, 938-943.		2
25	Performance Preserving Integral Extension of Linear and Homogeneous State-Feedback Controllers. IFAC-PapersOnLine, 2020, 53, 5129-5134.	0.9	2
26	Control of a biomass-furnace based on input-output-linearization. , 2015, , .		1
27	Optimization-Based Iterative Learning Speed Control for Vehicle Test Procedures. IFAC-PapersOnLine, 2019, 52, 516-522.	0.9	1
28	Convergence Time Bounds for a Family of Second-Order Homogeneous State-Feedback Controllers. , 2020, 4, 1018-1023.		1
29	Beobachterentwurf fÃ¼r lineare, zeitvariante Systeme mittels Spektraltheorie. Automatisierungstechnik, 2021, 69, 85-96.	0.8	1
30	Computing and Estimating the Reaching Time of the Super-Twisting Algorithm. Studies in Systems, Decision and Control, 2020, , 73-123.	1.0	1
31	An integral extension technique for continuous homogeneous stateâ€feedback control laws preserving nominal performance. International Journal of Robust and Nonlinear Control, 2021, 31, 3480-3498.	3.7	0
32	A Distance Measure for Perspective Observability and Observability of Riccati Systems. IEEE Transactions on Automatic Control, 2023, 68, 1114-1121.	5.7	0
33	Sliding Surface Selection for Saturated Sliding-Mode Control of Linear Time-Invariant Plants. , 2021, , .		0