Julian Berberich

List of Publications by Year
in descending order

26	967	840776 11	1199594 12
papers	citations	h-index	g-index

26	26	26	395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. IEEE Transactions on Automatic Control, 2021, 66, 1702-1717.	5.7	273
2	Robust and optimal predictive control of the COVID-19 outbreak. Annual Reviews in Control, 2021, 51, 525-539.	7.9	103
3	Robust data-driven state-feedback design. , 2020, , .		86
4	One-Shot Verification of Dissipativity Properties From Inputâ€“Output Data. , 2019, 3, 709-714.		71
5	A trajectory-based framework for data-driven system analysis and control. , 2020, , .		66
6	Training Robust Neural Networks Using Lipschitz Bounds. , 2022, 6, 121-126.		51
7	Linear Tracking MPC for Nonlinear Systemsâ€”Part II: The Data-Driven Case. IEEE Transactions on Automatic Control, 2022, 67, 4406-4421.	5.7	51
8	Mathematical Modeling of the Pituitaryâ€“Thyroid Feedback Loop: Role of a TSH-T3-Shunt and Sensitivity Analysis. Frontiers in Endocrinology, 2018, 9, 91.	3.5	37
9	Robust Constraint Satisfaction in Data-Driven MPC. , 2020, , .		26
10	Data-driven model predictive control: closed-loop guarantees and experimental results. Automatisierungstechnik, 2021, 69, 608-618.	0.8	24
11	Data-Based System Analysis and Control of Flat Nonlinear Systems. , 2021, , .		21
12	On the design of terminal ingredients for data-driven MPC. IFAC-PapersOnLine, 2021, 54, 257-263.	0.9	20
13	Data-Driven Tracking MPC for Changing Setpoints. IFAC-PapersOnLine, 2020, 53, 6923-6930.	0.9	20
14	Dissipativity properties in constrained optimal control: A computational approach. Automatica, 2020, 114, 108840.	5.0	18
15	Robust Stability Analysis of a Simple Data-Driven Model Predictive Control Approach. IEEE Transactions on Automatic Control, 2023, 68, 2625-2637.	5.7	16
16	Determining optimal inputâ€“output properties: A data-driven approach. Automatica, 2021, 134, 109906.	5.0	13
17	Verifying dissipativity properties from noise-corrupted input-state data. , 2020, , .		13
18	Data-Driven Control of Nonlinear Systems: Beyond Polynomial Dynamics. , 2021, , .		12

#	Article	IF	Citations
19	Linear Tracking MPC for Nonlinear Systemsâ€"Part I: The Model-Based Case. IEEE Transactions on Automatic Control, 2022, 67, 4390-4405.	5.7	11
20	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties. , 2018, 2, 399-404.		10
21	Linear systems with neural network nonlinearities: Improved stability analysis via acausal Zames-Falb multipliers. , 2021, , .		8
22	Data-Driven Analysis and Controller Design for Discrete-Time Systems Under Aperiodic Sampling. IEEE Transactions on Automatic Control, 2023, 68, 3210-3225.	5.7	8
23	Training Robust Neural Networks Using Lipschitz Bounds. , 2021, , .		6
24	Improved stability conditions for systems under aperiodic sampling: model- and data-based analysis. , 2021, , .		3
25	Signal Estimation and System Identification With Nonlinear Dynamic Sensors. , 2019, , .		0
26	Robust Dual Control based on Gain Scheduling. , 2020, , .		0