Johannes KÃ¶hler

List of Publications by Year
in descending order

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Version: 2024-02-01

		687363	839539
33	1,273	13	18
papers	citations	h-index	g-index

33	33	33	708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constrained Nonlinear Output Regulation Using Model Predictive Control. IEEE Transactions on Automatic Control, 2022, 67, 2419-2434.	5.7	7
2	Recursively Feasible Stochastic Predictive Control Using an Interpolating Initial State Constraint. , 2022, 6, 2743-2748.		10
3	A robust adaptive model predictive control framework for nonlinear uncertain systems. International Journal of Robust and Nonlinear Control, 2021, 31, 8725-8749.	3.7	31
4	A Computationally Efficient Robust Model Predictive Control Framework for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2021, 66, 794-801.	5.7	78
5	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. IEEE Transactions on Automatic Control, 2021, 66, 1702-1717.	5.7	273
6	Robust and optimal predictive control of the COVID-19 outbreak. Annual Reviews in Control, 2021, 51, 525-539.	7.9	103
7	On the design of terminal ingredients for data-driven MPC. IFAC-PapersOnLine, 2021, 54, 257-263.	0.9	20
8	Data-driven model predictive control: closed-loop guarantees and experimental results. Automatisierungstechnik, 2021, 69, 608-618.	0.8	24
9	Determining optimal inputâ€“output properties: A data-driven approach. Automatica, 2021, 134, 109906.	5.0	13
10	Stability and performance in MPC using a finite-tail cost. IFAC-PapersOnLine, 2021, 54, 166-171.	0.9	5
11	A Nonlinear Model Predictive Control Framework Using Reference Generic Terminal Ingredients. IEEE Transactions on Automatic Control, 2020, 65, 3576-3583.	5.7	48
12	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance. , 2020, 4, 713-718.		14
13	Periodic optimal control of nonlinear constrained systems using economic model predictive control. Journal of Process Control, 2020, 92, 185-201.	3.3	3
14	Safe and Fast Tracking on a Robot Manipulator: Robust MPC and Neural Network Control. IEEE Robotics and Automation Letters, 2020, 5, 3050-3057.	5.1	92
15	Dissipativity properties in constrained optimal control: A computational approach. Automatica, 2020, 114, 108840.	5.0	18
16	A nonlinear tracking model predictive control scheme for dynamic target signals. Automatica, 2020, 118, 109030.	5.0	30
17	Data-Driven Tracking MPC for Changing Setpoints. IFAC-PapersOnLine, 2020, 53, 6923-6930.	0.9	20
18	Robust Constraint Satisfaction in Data-Driven MPC. , 2020, , .		26

#	Article	IF	Citations
19	Implicit solutions to constrained nonlinear output regulation using MPC. , 2020, , .		1
20	Stability and performance in transient average constrained economic MPC without terminal constraints. IFAC-PapersOnLine, 2020, 53, 6943-6950.	0.9	3
21	A simple framework for nonlinear robust output-feedback MPC. , 2019, , .		4
22	One-Shot Verification of Dissipativity Properties From Inputâ€“Output Data. , 2019, 3, 709-714.		71
23	Linear robust adaptive model predictive control: Computational complexity and conservatism. , 2019, , .		26
24	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control. , 2019, , .		37
25	Dual Adaptive MPC for output tracking of linear systems. , 2019, , .		8
26	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. IEEE Transactions on Automatic Control, 2019, 64, 254-269.	5.7	61
27	MPC for nonlinear periodic tracking using reference generic offline computations. IFAC-PapersOnLine, 2018, 51, 556-561.	0.9	6
28	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties. , 2018, 2, 399-404.		10
29	Dynamic Resource Allocation to Control Epidemic Outbreaks A Model Predictive Control Approach. , 2018, , .		12
30	Learning an Approximate Model Predictive Controller With Guarantees. , 2018, 2, 543-548.		153
31	A novel constraint tightening approach for nonlinear robust model predictive control. , 2018, , .		37
32	On Periodic Dissipativity Notions in Economic Model Predictive Control. , 2018, 2, 501-506.		12
33	Real time economic dispatch for power networks: A distributed economic model predictive control approach. , 2017, , .		17