

Milan Korda

List of Publications by Year in descending order

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papers

1,554
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759233

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all docs

29
docs citations

29
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear predictors for nonlinear dynamical systems: Koopman operator meets model predictive control. <i>Automatica</i> , 2018, 93, 149-160.	5.0	498
2	Convex Computation of the Region of Attraction of Polynomial Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 297-312.	5.7	196
3	On Convergence of Extended Dynamic Mode Decomposition to the Koopman Operator. <i>Journal of Nonlinear Science</i> , 2018, 28, 687-710.	2.1	196
4	Convex Computation of the Maximum Controlled Invariant Set For Polynomial Control Systems. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 2944-2969.	2.1	91
5	On turnpike and dissipativity properties of continuous-time optimal control problems. <i>Automatica</i> , 2017, 81, 297-304.	5.0	81
6	Optimal Construction of Koopman Eigenfunctions for Prediction and Control. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 5114-5129.	5.7	69
7	Data-driven spectral analysis of the Koopman operator. <i>Applied and Computational Harmonic Analysis</i> , 2020, 48, 599-629.	2.2	63
8	A Data-Driven Koopman Model Predictive Control Framework for Nonlinear Partial Differential Equations. , 2018, , .		56
9	Power grid transient stabilization using Koopman model predictive control. <i>IFAC-PapersOnLine</i> , 2018, 51, 297-302.	0.9	46
10	Stochastic MPC Framework for Controlling the Average Constraint Violation. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 1706-1721.	5.7	42
11	Inner approximations of the region of attraction for polynomial dynamical systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 534-539.	0.4	39
12	Strongly feasible stochastic model predictive control. , 2011, , .		30
13	Turnpike and dissipativity properties in dynamic real-time optimization and economic MPC. , 2014, , .		28
14	Controller design and value function approximation for nonlinear dynamical systems. <i>Automatica</i> , 2016, 67, 54-66.	5.0	16
15	Stability and performance verification of optimization-based controllers. <i>Automatica</i> , 2017, 78, 34-45.	5.0	13
16	Convergence rates of moment-sum-of-squares hierarchies for optimal control problems. <i>Systems and Control Letters</i> , 2017, 100, 1-5.	2.3	12
17	Model Predictive Control of a Vehicle using Koopman Operator. <i>IFAC-PapersOnLine</i> , 2020, 53, 4228-4233.	0.9	12
18	Solving the Infinite-Horizon Constrained LQR Problem Using Accelerated Dual Proximal Methods. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 1752-1767.	5.7	10

#	ARTICLE	IF	CITATIONS
19	Converging outer approximations to global attractors using semidefinite programming. Automatica, 2021, 134, 109900.	5.0	10
20	Convex Computation of Extremal Invariant Measures of Nonlinear Dynamical Systems and Markov Processes. Journal of Nonlinear Science, 2021, 31, 1.	2.1	8
21	Computing Controlled Invariant Sets from Data Using Convex Optimization. SIAM Journal on Control and Optimization, 2020, 58, 2871-2899.	2.1	7
22	Koopman Model Predictive Control of Nonlinear Dynamical Systems. Lecture Notes in Control and Information Sciences, 2020, , 235-255.	1.0	6
23	Control of nonlinear systems with explicit-MPC-like controllers. , 2017, , .		5
24	Convergence rates of moment-sum-of-squares hierarchies for volume approximation of semialgebraic sets. Optimization Letters, 2018, 12, 435-442.	1.6	5
25	Spatio-Temporal Decomposition of Sum-of-Squares Programs for the Region of Attraction and Reachability. , 2022, 6, 812-817.		5
26	Stability and Performance Verification of Dynamical Systems Controlled by Neural Networks: Algorithms and Complexity. , 2022, 6, 3265-3270.		4
27	Real-Time Implementation of Explicit Model Predictive Control. Control Engineering, 2019, , 387-412.	0.3	3
28	On 1-norm stochastic optimal control with bounded control inputs. , 2011, , .		2
29	Application of Koopman-Based Control in Ultrahigh-Precision Positioning. Lecture Notes in Control and Information Sciences, 2020, , 451-479.	1.0	1