

Jan Maximilian Montenbruck

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

323
citations

1307594

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h-index

940533

16
g-index

29
all docs

29
docs citations

29
times ranked

310
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical synchronization with diffusive couplings. Automatica, 2015, 53, 235-243.	5.0	54
2	A Distributed Control Approach to Formation Balancing and Maneuvering of Multiple Multirotor UAVs. IEEE Transactions on Robotics, 2018, 34, 870-882.	10.3	52
3	Robust nonlinear control approach to nontrivial maneuvers and obstacle avoidance for quadrotor UAV under disturbances. Robotics and Autonomous Systems, 2017, 98, 317-332.	5.1	36
4	Some problems arising in controller design from big data via input-output methods. , 2016, , .		32
5	Sampling strategies for data-driven inference of passivity properties. , 2017, , .		23
6	Determining dissipation inequalities from input-output samples * *The authors thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart.. IFAC-PapersOnLine, 2017, 50, 7789-7794.	0.9	17
7	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems. , 2018, , .		17
8	On the Necessity of Diffusive Couplings in Linear Synchronization Problems With Quadratic Cost. IEEE Transactions on Automatic Control, 2015, 60, 3029-3034.	5.7	15
9	Compensating Drift Vector Fields With Gradient Vector Fields for Asymptotic Submanifold Stabilization. IEEE Transactions on Automatic Control, 2016, 61, 388-399.	5.7	10
10	Sampling Strategies for Data-Driven Inference of Input-Output System Properties. IEEE Transactions on Automatic Control, 2021, 66, 1144-1159.	5.7	10
11	A robust nonlinear controller for nontrivial quadrotor maneuvers: Approach and verification. , 2015, , .		8
12	Asymptotic stabilization of submanifolds embedded in Riemannian manifolds. Automatica, 2016, 74, 349-359.	5.0	7
13	Practical and Robust Synchronization of Systems with Additive Linear Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 743-748.	0.4	6
14	Fekete Points, Formation Control, and the Balancing Problem. IEEE Transactions on Automatic Control, 2017, 62, 5069-5081.	5.7	6
15	A resource dependent protein synthesis model for evaluating synthetic circuits. Journal of Theoretical Biology, 2017, 420, 267-278.	1.7	5
16	Synchronization of diffusively coupled systems on compact Riemannian manifolds in the presence of drift. Systems and Control Letters, 2015, 76, 19-27.	2.3	4
17	Structured State Feedback Controllers and Optimal Submanifold Stabilization. SIAM Journal on Control and Optimization, 2017, 55, 2393-2411.	2.1	4
18	Linear systems with quadratic outputs. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Practical cluster synchronization of heterogeneous systems on graphs with acyclic topology. , 2013, , .		3
20	Collinear dynamical systems. Systems and Control Letters, 2017, 105, 34-43.	2.3	3
21	Data-driven inference of conic relations via saddle-point dynamics. IFAC-PapersOnLine, 2018, 51, 396-401.	0.9	3
22	Stabilizing submanifolds with passive input-output relations. , 2015, , .		2
23	Persistence of Excitation and the Feedback Theorem for Passive Systems. IFAC-PapersOnLine, 2016, 49, 927-932.	0.9	1
24	Pinning Capital Stock and Gross Investment Rate in Competing Rationally Managed Firms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10719-10724.	0.4	0
25	A convex conic underestimate of Laplacian spectra and its application to network synthesis. , 2015, , .		0
26	An Input-Output Framework for Submanifold Stabilization. IEEE Transactions on Automatic Control, 2017, 62, 5170-5184.	5.7	0
27	Periodic Signal Compressors. IFAC-PapersOnLine, 2017, 50, 6465-6470.	0.9	0
28	Separable matrices and minimum complexity controllers. , 2017, , .		0