

Anders Rantzer

List of Publications by Year in descending order

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33
papers

2,352
citations

759055

12
h-index

794469

19
g-index

33
all docs

33
docs citations

33
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Kalman–Yakubovich–Popov lemma. <i>Systems and Control Letters</i> , 1996, 28, 7-10.	1.3	749
2	A dual to Lyapunov's stability theorem. <i>Systems and Control Letters</i> , 2001, 42, 161-168.	1.3	273
3	Accelerated gradient methods and dual decomposition in distributed model predictive control. <i>Automatica</i> , 2013, 49, 829-833.	3.0	200
4	Scalable control of positive systems. <i>European Journal of Control</i> , 2015, 24, 72-80.	1.6	193
5	On the Infinite Horizon Performance of Receding Horizon Controllers. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2100-2111.	3.6	146
6	Distributed control of positive systems. , 2011, , .		143
7	On Feasibility, Stability and Performance in Distributed Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 1031-1036.	3.6	84
8	Distributed Model Predictive Control with suboptimality and stability guarantees. , 2010, , .		82
9	On the Kalman-Yakubovich-Popov Lemma for Positive Systems. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 1346-1349.	3.6	68
10	Convex Programs for Temporal Verification of Nonlinear Dynamical Systems. <i>SIAM Journal on Control and Optimization</i> , 2007, 46, 999-1021.	1.1	61
11	Robust Stability Analysis of Sparsely Interconnected Uncertain Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2151-2156.	3.6	54
12	A Tutorial on Positive Systems and Large Scale Control. , 2018, , .		46
13	Experimental Evaluation of a Distributed Kalman Filter Algorithm. , 2007, , .		33
14	ON THE NECESSITY OF BARRIER CERTIFICATES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 526-531.	0.4	32
15	Smooth blending of nonlinear controllers using density functions. , 2001, , .		27
16	On the Kalman-Yakubovich-Popov lemma for positive systems. , 2012, , .		19
17	Primal–Dual Tests for Safety and Reachability. <i>Lecture Notes in Computer Science</i> , 2005, , 542-556.	1.0	16
18	Optimizing positively dominated systems. , 2012, , .		16

#	ARTICLE	IF	CITATIONS
19	On Homogeneous Density Functions. , 2003, , 261-274.		14
20	Combination of Lyapunov and Density Functions for Stability of Rotational Motion. IEEE Transactions on Automatic Control, 2011, 56, 2599-2607.	3.6	14
21	A distributed accelerated gradient algorithm for distributed model predictive control of a hydro power valley. Control Engineering Practice, 2013, 21, 1594-1605.	3.2	12
22	Diagonal Lyapunov functions for positive linear time-varying systems. , 2016, , .		12
23	Optimal H_{∞} state feedback for systems with symmetric and Hurwitz state matrix. , 2016, , .		11
24	H-Infinity Optimal Control for Systems With a Bottleneck Frequency. IEEE Transactions on Automatic Control, 2021, 66, 2732-2738.	3.6	11
25	On Second-Order Cone Positive Systems. SIAM Journal on Control and Optimization, 2021, 59, 2717-2739.	1.1	10
26	Scalable Control of Positive Systems. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 319-341.	7.5	9
27	Multivariable Optimization-Based Model Reduction. IEEE Transactions on Automatic Control, 2009, 54, 2477-2480.	3.6	7
28	Structure Preserving H-infinity Optimal PI Control. IFAC-PapersOnLine, 2017, 50, 2573-2576.	0.5	5
29	H-infinity optimal distributed control in discrete time. , 2017, , .		3
30	Density and Cost in Non-linear Control. European Journal of Control, 2003, 9, 285-295.	1.6	1
31	On distributed high-gain adaptive stabilization. , 2019, , .		1
32	Model Reduction of Spatially Distributed Systems Using Coprime Factors and Semidefinite Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6663-6668.	0.4	0
33	Exchange economics as an alternative to distributed optimization. , 2016, , .		0