

Paolo Massioni

List of Publications by Year in descending order

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42
papers

679
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840776

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42
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42
docs citations

42
times ranked

499
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Control for Identical Dynamically Coupled Systems: A Decomposition Approach. IEEE Transactions on Automatic Control, 2009, 54, 124-135.	5.7	285
2	Fast computation of an optimal controller for large-scale adaptive optics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2298.	1.5	39
3	Subspace identification of circulant systems. Automatica, 2008, 44, 2825-2833.	5.0	38
4	A Decomposition-Based Approach to Linear Time-Periodic Distributed Control of Satellite Formations. IEEE Transactions on Control Systems Technology, 2011, 19, 481-492.	5.2	36
5	Sliding mode observer for proton exchange membrane fuel cell: automotive application. Journal of Power Sources, 2018, 388, 71-77.	7.8	30
6	Distributed control for alpha-heterogeneous dynamically coupled systems. Systems and Control Letters, 2014, 72, 30-35.	2.3	26
7	Distributed Kalman filtering compared to Fourier domain preconditioned conjugate gradient for laser guide star tomography on extremely large telescopes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 898.	1.5	23
8	A full block S-procedure application to distributed control. , 2010, , .		22
9	Subspace identification of distributed, decomposable systems. , 2009, , .		18
10	Control by state observer of PEMFC anodic purges in dead-end operating mode. IFAC-PapersOnLine, 2015, 48, 237-243.	0.9	18
11	Adaptive distributed Kalman filtering with wind estimation for astronomical adaptive optics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 2353.	1.5	16
12	A Decomposition Approach to Distributed Control of Dynamic Deformable Mirrors. International Journal of Optomechatronics, 2010, 4, 269-284.	6.6	13
13	Lyapunov Stability Analysis of Switching Controllers in Presence of Sliding Modes and Parametric Uncertainties With Application to Pneumatic Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 1953-1964.	5.2	13
14	An Approximation of the Riccati Equation in Large-Scale Systems With Application to Adaptive Optics. IEEE Transactions on Control Systems Technology, 2015, 23, 479-487.	5.2	12
15	Vibration mitigation in adaptive optics control. Proceedings of SPIE, 2012, , .	0.8	9
16	Distributed control of vehicle formations: A decomposition approach. , 2008, , .		8
17	Incremental stability of Lurâ€™e systems through piecewise-affine approximations. IFAC-PapersOnLine, 2017, 50, 1673-1679.	0.9	8
18	Incremental $\ L\ $ -gain stability of piecewise-affine systems with piecewise-polynomial storage functions. Automatica, 2019, 107, 224-230.		7

#	ARTICLE	IF	CITATIONS
19	Flatness-Based Control of a Two Degrees-of-Freedom Platform With Pneumatic Artificial Muscles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	7
20	A Matching Pursuit Algorithm Approach to Chaser-Target Formation Flying Problems. IEEE Transactions on Control Systems Technology, 2012, 20, 513-519.	5.2	5
21	Robust simulation of continuous-time systems with rational dynamics. International Journal of Robust and Nonlinear Control, 2017, 27, 3097-3108.	3.7	5
22	Adaptive optics application of distributed control design for decomposable systems. , 2009, , .		4
23	Convex optimisation approach to constrained fuel optimal control of spacecraft in close relative motion. Advances in Space Research, 2018, 61, 2366-2376.	2.6	4
24	Ellipsoidal state estimation based on sum of squares for non-linear systems with unknown but bounded noise. IET Control Theory and Applications, 2019, 13, 1955-1961.	2.1	4
25	Analysis, prevention, and feasibility assessment of stealthy ageing attacks on dynamical systems. IET Control Theory and Applications, 2022, 16, 381-397.	2.1	4
26	A piecewise-affine approach to the analysis of non-linear control laws for pneumatic systems. , 2014, , .		3
27	Incremental α -gain analysis of piecewise-affine systems using piecewise quadratic storage functions. , 2016, , .		3
28	Fuel Cell Management System: PEMFC Lifetime Optimization by Model Based Approach. ECS Transactions, 2018, 86, 25-35.	0.5	3
29	Estimation of inverter voltage disturbances for induction machine drive using LPV observer with convex optimization. Mathematics and Computers in Simulation, 2021, 184, 196-209.	4.4	3
30	Security of Control Systems: Prevention of Aging Attacks by means of Convex Robust Simulation Forecasts. IFAC-PapersOnLine, 2020, 53, 4452-4459.	0.9	3
31	Approximating the Riccati Equation solution for optimal estimation in large-scale Adaptive Optics systems. , 2012, , .		2
32	Consensus analysis of large-scale nonlinear homogeneous multiagent formations with polynomial dynamics. International Journal of Robust and Nonlinear Control, 2018, 28, 5605-5617.	3.7	2
33	Fast finite-horizon kalman filter in wavefront estimation for adaptive optics. , 2014, , .		1
34	A piecewise-polynomial approach to the stability analysis of non-linear switching controllers in presence of sliding modes with application to pneumatic systems. , 2015, , .		1
35	A Complete Model of a Two Degree of Freedom Platform Actuated by Three Pneumatic Muscles Elaborated for Control Synthesis. , 2016, , .		1
36	Guaranteed systematic simulation of discrete-time systems defined by polynomial expressions via convex relaxations. International Journal of Robust and Nonlinear Control, 2018, 28, 1062-1073.	3.7	1

#	ARTICLE	IF	CITATIONS
37	Analysis of pulse width modulation controlled systems based on a piecewise affine description. International Journal of Robust and Nonlinear Control, 2020, 30, 5917-5935.	3.7	1
38	Distributed Control Methods for Structured Large-Scale Systems. , 2010, , 279-303.		1
39	A Matching Pursuit Algorithm Approach to Chaser-Target Formation Flying Problems with Linear Time-Invariant Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2036-2041.	0.4	0
40	Robust simulation of rational discrete-time systems via sum of squares relaxations. IFAC-PapersOnLine, 2017, 50, 4108-4113.	0.9	0
41	Strehl-optimal Kalman filtering in large-scale tomographic adaptive optics. , 2016, , .		0
42	Stability of uncertain piecewise-affine systems with parametric dependence. IFAC-PapersOnLine, 2020, 53, 1998-2003.	0.9	0