

Paolo Massioni

List of Publications by Year in descending order

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42
docs citations

42
times ranked

499
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis, prevention, and feasibility assessment of stealthy ageing attacks on dynamical systems. IET Control Theory and Applications, 2022, 16, 381-397.	2.1	4
2	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
3	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
4	Security of Control Systems: Prevention of Aging Attacks by means of Convex Robust Simulation Forecasts. IFAC-PapersOnLine, 2020, 53, 4452-4459.	0.9	3
5	Stability of uncertain piecewise-affine systems with parametric dependence. IFAC-PapersOnLine, 2020, 53, 1998-2003.	0.9	0
6	Incremental L_2 -gain stability of piecewise-affine systems with piecewise-polynomial storage functions. Automatica, 2019, 107, 224-230.	3.7	1
7	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
8	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
9	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
10	Sliding mode observer for proton exchange membrane fuel cell: automotive application. Journal of Power Sources, 2018, 388, 71-77.	7.8	30
11	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
12	Fuel Cell Management System: PEMFC Lifetime Optimization by Model Based Approach. ECS Transactions, 2018, 86, 25-35.	0.5	3
13	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
14	Robust simulation of continuous-time systems with rational dynamics. International Journal of Robust and Nonlinear Control, 2017, 27, 3097-3108.	3.7	5
15	Incremental stability of Lur'e systems through piecewise-affine approximations. IFAC-PapersOnLine, 2017, 50, 1673-1679.	0.9	8
16	Robust simulation of rational discrete-time systems via sum of squares relaxations. IFAC-PapersOnLine, 2017, 50, 4108-4113.	0.9	0
17	A Complete Model of a Two Degree of Freedom Platform Actuated by Three Pneumatic Muscles Elaborated for Control Synthesis. , 2016, , .		1
18	Incremental L_2 -gain analysis of piecewise-affine systems using piecewise quadratic storage functions. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	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
20	Strehl-optimal Kalman filtering in large-scale tomographic adaptive optics. , 2016, , .		0
21	Control by state observer of PEMFC anodic purges in dead-end operating mode. IFAC-PapersOnLine, 2015, 48, 237-243.	0.9	18
22	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
23	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
24	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
25	Fast finite-horizon kalman filter in wavefront estimation for adaptive optics. , 2014, , .		1
26	A piecewise-affine approach to the analysis of non-linear control laws for pneumatic systems. , 2014, , .		3
27	Distributed control for alpha-heterogeneous dynamically coupled systems. Systems and Control Letters, 2014, 72, 30-35.	2.3	26
28	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
29	Approximating the Riccati Equation solution for optimal estimation in large-scale Adaptive Optics systems. , 2012, , .		2
30	Vibration mitigation in adaptive optics control. Proceedings of SPIE, 2012, , .	0.8	9
31	A Matching Pursuit Algorithm Approach to Chaser-Target Formation Flying Problems. IEEE Transactions on Control Systems Technology, 2012, 20, 513-519.	5.2	5
32	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
33	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
34	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
35	A full block S-procedure application to distributed control. , 2010, , .		22
36	A Decomposition Approach to Distributed Control of Dynamic Deformable Mirrors. International Journal of Optomechatronics, 2010, 4, 269-284.	6.6	13

#	ARTICLE	IF	CITATIONS
37	Distributed Control Methods for Structured Large-Scale Systems. , 2010, , 279-303.		1
38	Adaptive optics application of distributed control design for decomposable systems. , 2009, , .		4
39	Distributed Control for Identical Dynamically Coupled Systems: A Decomposition Approach. IEEE Transactions on Automatic Control, 2009, 54, 124-135.	5.7	285
40	Subspace identification of distributed, decomposable systems. , 2009, , .		18
41	Subspace identification of circulant systems. Automatica, 2008, 44, 2825-2833.	5.0	38
42	Distributed control of vehicle formations: A decomposition approach. , 2008, , .		8