

Maurício Carvalho de Oliveira

List of Publications by Year in descending order

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101
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2,952
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102
all docs

102
docs citations

102
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Phasor estimation in power transmission lines by using the Kalman filter. <i>Electrical Engineering</i> , 2022, 104, 991-1000.	2.0	5
2	Nonlinear Analysis on Transmission Line Parameters Estimation From Noisy Phasorial Measurements. <i>IEEE Access</i> , 2022, 10, 1720-1730.	4.2	5
3	Impedance Parameters Estimation of Transmission Lines by an Extended Kalman Filter-Based Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	4.7	5
4	An Alternative Algorithm to the D-K Iterations for Robust Control Design. , 2021, 5, 115-120.		1
5	A New Approach for Transmission Line Parameter Estimation from Noisy PMU Data. , 2021, , .		0
6	Estimation of transmission line parameters by using two leastâ€squares methods. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 568-575.	2.5	8
7	Revisiting stability analysis of Phase-Locked Loops with the Popov Stability Criterion. <i>IFAC Journal of Systems and Control</i> , 2021, 18, 100177.	1.7	2
8	Pre-filtering in continuous-time quadratic gain-scheduled and robust state-feedback control. <i>International Journal of Control</i> , 2020, 93, 554-564.	1.9	2
9	Optimal Kalman Estimation of Symmetrical Sequence Components. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 8844-8852.	4.7	19
10	Low-Cost Open-Source Solution to Optimize Emergency Medical Services in Developing Communities by Tracking, Dispatching, and Simulating. , 2019, , .		0
11	Discrete-time H_{∞} control of linear parameter-varying systems. <i>International Journal of Control</i> , 2019, 92, 2750-2760.	1.9	9
12	On the Necessity of LMI-Based Design Conditions for Discrete Time LPV Filters. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 3187-3188.	5.7	14
13	A simple necessary and sufficient LMI condition for the strong delay-independent stability of LTI systems with single delay. <i>Automatica</i> , 2018, 89, 407-410.	5.0	15
14	LMI-based stability tests for LPV and switched discrete-time linear systems through redundant equations. <i>IFAC-PapersOnLine</i> , 2018, 51, 149-154.	0.9	3
15	Discrete time H_{∞} synthesis conditions for LPV filter design. <i>IFAC-PapersOnLine</i> , 2018, 51, 7-12.	0.9	3
16	Estimating Recoverable Performance Degradation Rates and Optimizing Maintenance Scheduling. , 2018, , .		0
17	Model Predictive Control for Gas Turbine Engines. , 2018, , .		5
18	Planar time-optimal paths for asymmetric vehicles in constant flows. <i>International Journal of Robotics Research</i> , 2018, 37, 1168-1183.	8.5	0

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19	H_{∞} filter design with low- and middle-frequency specifications for continuous-time linear systems: LMI conditions derived from two different extensions of the KYP lemma. , 2018, , .		0
20	A new discrete-time stabilizability condition for Linear Parameter-Varying systems. Automatica, 2017, 79, 214-217.	5.0	23
21	Optimizing the location of ambulances in Tijuana, Mexico. Computers in Biology and Medicine, 2017, 80, 107-115.	7.0	40
22	On the problem of optimal estimation of balanced and symmetric three-phase signals. International Journal of Electrical Power and Energy Systems, 2017, 91, 155-165.	5.5	8
23	Pre-filtering and post-filtering in gain-scheduled output-feedback control. International Journal of Robust and Nonlinear Control, 2017, 27, 3259-3279.	3.7	5
24	Non-minimal order low-frequency H_{∞} filtering for uncertain discrete-time systems. IFAC-PapersOnLine, 2017, 50, 6477-6482.	0.9	1
25	Quadratic and Poly-Quadratic Discrete-Time Stabilizability of Linear Parameter-Varying Systems. IFAC-PapersOnLine, 2017, 50, 8624-8629.	0.9	7
26	Gas Turbine Machinery Diagnostics: A Brief Review and a Sample Application. , 2017, , .		4
27	Multi-Stage System Identification of a Gas Turbine. , 2017, , .		1
28	Robust non-minimal order filter and smoother design for discrete-time uncertain systems. International Journal of Robust and Nonlinear Control, 2017, 27, 661-678.	3.7	9
29	Gain-scheduled H_2 non-minimal order filtering design for linear parameter-varying discrete-time systems * *Supported by Brazilian agencies CAPES, CNPq, and grant 2013/05957-1, São Paulo Research Foundation (FAPESP). IFAC-PapersOnLine, 2017, 50, 11391-11396.	0.9	0
30	Best modeling practices for optimal estimation of balanced and symmetric three-phase signals. , 2017, , .		0
31	Fault Detection Using Reduced Rank Linear Engine Models. , 2016, , .		2
32	Robust H_{∞} filtering with auxiliary past output measurements. , 2016, , .		1
33	A catalog of LMI conditions for gain-scheduled output-feedback H_{∞} -control. , 2016, , .		1
34	Pre-filtering in gain-scheduled and robust control. , 2016, , .		7
35	Robust H_2 filtering for discrete-time uncertain systems with auxiliary past output measurements. , 2016, , .		0
36	State-feedback and filtering problems using the generalized KYP lemma. , 2016, , .		9

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37	Robust filter design with past output measurements for uncertain discrete-time systems. Automatica, 2016, 71, 151-158.	5.0	44
38	LMI design method for networked-based PID control. International Journal of Control, 2016, 89, 1962-1971.	1.9	8
39	Conditions for Consensus of Multi-Agent Systems With Time-Delays and Uncertain Switching Topology. IEEE Transactions on Industrial Electronics, 2016, 63, 1258-1267.	7.9	98
40	Robust stabilization of linear continuous-time parameter-varying systems without quadratic stability. , 2015, , .		1
41	DuCTT: A tensegrity robot for exploring duct systems. , 2014, , .		56
42	Stability criteria for uncertain linear time-varying systems. , 2014, , .		2
43	Experimental investigation of the softening–stiffening response of tensegrity prisms under compressive loading. Composite Structures, 2014, 117, 234-243.	5.8	89
44	Switching rule design for affine switched systems using a max-type composition rule. Systems and Control Letters, 2014, 68, 1-8.	2.3	51
45	Motion planning for the Snakeboard. International Journal of Robotics Research, 2012, 31, 872-885.	8.5	19
46	Simplification of symbolic polynomials on non-commutative variables. Linear Algebra and Its Applications, 2012, 437, 1734-1748.	0.9	0
47	Switching rule design for affine switched systems with performance. , 2012, , .		0
48	Explicit Controller Parametrizations for Linear Parameter-Varying Affine Systems Using Linear Matrix Inequalities. , 2012, , 91-104.		2
49	Stabilizing switching rule design for affine switched systems. , 2011, , .		20
50	Robust state feedback LMI methods for continuous-time linear systems: Discussions, extensions and numerical comparisons. , 2011, , .		62
51	Symbolic computer algebra algorithms for factorizations of Sylvester mappings with applications to the production of linear matrix inequalities in systems and controls. , 2011, , .		1
52	Exact motion planning solution for principally kinematic systems. , 2011, , .		0
53	High-fidelity modulation parameter estimation of non-cooperative transmitters: Baud-period and timing. , 2011, 21, 625-631.		1
54	High-fidelity modulation parameter estimation of non-cooperative transmitters: Carrier frequency. , 2011, 21, 632-637.		2

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55	Exact motion planning solution for principally kinematic systems. , 2011, , .		1
56	Event-driven Gaussian process for object localization in wireless sensor networks. , 2011, , .		1
57	A Necessary and Sufficient First Delay-Interval Stability Condition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 319-324.	0.4	0
58	Nanomechanics of Multiple Units in the Erythrocyte Membrane Skeletal Network. Annals of Biomedical Engineering, 2010, 38, 2956-2967.	2.5	8
59	Optimal tensegrity structures in bending: The discrete Michell truss. Journal of the Franklin Institute, 2010, 347, 257-283.	3.4	38
60	Optimal complexity of deployable compressive structures. Journal of the Franklin Institute, 2010, 347, 228-256.	3.4	28
61	Linear matrix inequality tests for frequency domain inequalities with affine multipliers. Automatica, 2010, 46, 897-901.	5.0	6
62	A new method for robust Schur stability analysis. International Journal of Control, 2010, 83, 2181-2192.	1.9	2
63	Dynamics of Tensegrity Systems. , 2010, , 73-88.		2
64	Stability independent of delay using rational functions. Automatica, 2009, 45, 2128-2133.	5.0	40
65	An alternative Kalmanâ€“Yakubovichâ€“Popov lemma and some extensions. Automatica, 2009, 45, 1489-1496.	5.0	16
66	Modelling and control of non-minimal non-linear realisations of tensegrity systems. International Journal of Control, 2009, 82, 389-407.	1.9	23
67	Special time-varying Lyapunov function for robust stability analysis of linear parameter varying systems with bounded parameter variation. IET Control Theory and Applications, 2009, 3, 1448-1461.	2.1	13
68	Designing Instrumentation for Control. , 2009, , 71-88.		1
69	Convergent LMI relaxations for robust analysis of uncertain linear systems using lifted polynomial parameter-dependent Lyapunov functions. Systems and Control Letters, 2008, 57, 680-689.	2.3	63
70	Assessing stability of time-delay systems using rational systems. , 2008, , .		7
71	RobustH [∞] performance using lifted polynomial parameter-dependent Lyapunov functions. International Journal of Control, 2008, 81, 1089-1101.	1.9	7
72	Parameter-dependent Lyapunov functions for robust stability analysis of time-varying systems in polytopic domains. , 2007, , .		3

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73	Asymptotically exact H_2 guaranteed cost computation by means of a special parameter-dependent Lyapunov function. , 2007, , .		4
74	Schur stability of polytopic systems through positivity analysis of matrix-valued polynomials. , 2007, , .		1
75	Analysis and Design Methodologies for Robust Aeroservoelastic Structures. , 2007, , .		4
76	Spectral over-bounding of frequency data for modeling product variability in hard disk drive actuators. , 2007, , .		1
77	LMI relaxations for robust H_2 performance analysis of polytopic linear systems. , 2006, , .		13
78	Computer algebra tailored to matrix inequalities in control. International Journal of Control, 2006, 79, 1382-1400.	1.9	9
79	Linearization Algorithm for a Reduced Order H_∞ Control Design of an Active Suspension System. European Journal of Control, 2006, 12, 205-219.	2.6	1
80	A Discussion on Control of Tensegrity Systems. , 2006, , .		9
81	Minimum Mass Design of Tensegrity Towers and Plates. , 2006, , .		6
82	Integrating control design and sensor/actuator selection. , 2006, , .		4
83	Dynamics of Systems with Rods. , 2006, , .		3
84	A new topology of tensegrity towers with uniform force distribution. , 2005, , .		2
85	A class of robust stability conditions where linear parameter dependence of the Lyapunov function is a necessary condition for arbitrary parameter dependence. Systems and Control Letters, 2005, 54, 1131-1134.	2.3	37
86	H_2 and H_∞ Filtering Design Subject to Implementation Uncertainty. SIAM Journal on Control and Optimization, 2005, 44, 515-530.	2.1	21
87	Investigating duality on stability conditions. Systems and Control Letters, 2004, 52, 1-6.	2.3	26
88	Synthesis of non-rational controllers for linear delay systems. Automatica, 2004, 40, 171-188.	5.0	43
89	“Convexifying” Linear Matrix Inequality Methods for Integrating Structure and Control Design. Journal of Structural Engineering, 2003, 129, 978-988.	3.4	27
90	Unstable-unit tensegrity plate: modeling and design. , 2003, 5056, 615.		0

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91	Extended H_2 and H_∞ norm characterizations and controller parametrizations for discrete-time systems. <i>International Journal of Control</i> , 2002, 75, 666-679.	1.9	670
92	Stability tests for constrained linear systems. <i>Lecture Notes in Control and Information Sciences</i> , 2001, , 241-257.	1.0	428
93	H_2 and H_∞ robust filtering for convex bounded uncertain systems. <i>IEEE Transactions on Automatic Control</i> , 2001, 46, 100-107.	5.7	194
94	Mixed H_2/H_∞ control of flexible structures. <i>Mathematical Problems in Engineering</i> , 2001, 6, 557-598.	1.1	5
95	State feedback control of linear systems in the presence of devices with finite signal-to-noise ratio. <i>International Journal of Control</i> , 2001, 74, 1501-1509.	1.9	15
96	Design of dynamic output feedback decentralized controllers via a separation procedure. <i>International Journal of Control</i> , 2000, 73, 371-381.	1.9	69
97	H_2 and H_∞ Robust Filtering for Discrete-Time Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 2000, 38, 1353-1368.	2.1	133
98	Linear output feedback controller design with joint selection of sensors and actuators. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 2412-2419.	5.7	33
99	H_2 -norm optimization with constrained dynamic output feedback controllers: decentralized and reliable control. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 1449-1454.	5.7	95
100	LMI characterization of structural and robust stability. <i>Linear Algebra and Its Applications</i> , 1998, 285, 69-80.	0.9	166
101	An Analytic Motion Planning Solution for the Snakeboard. , 0, , .		3