

Ricardo C L F Oliveira

List of Publications by Year in descending order

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61
papers

1,440
citations

643344

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docs citations

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times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization and \mathcal{H}_2 Static Output-Feedback Control of Discrete-Time Positive Linear Systems. IEEE Transactions on Automatic Control, 2022, 67, 1446-1452.	3.6	5
2	Reduced Order Positive Filter Design for Positive Uncertain Discrete-Time Linear Systems. , 2022, 6, 1148-1153.		5
3	\mathcal{H}_∞ Model Match Output-Feedback Control by Means of an LMI-Based Algorithm. , 2022, 6, 560-565.		0
4	Control design of uncertain discrete-time Lur'e systems with sector and slope bounded nonlinearities. International Journal of Robust and Nonlinear Control, 2022, 32, 7001-7015.	2.1	1
5	An LMI-Based Algorithm to Compute Robust Stabilizing Feedback Gains Directly as Optimization Variables. IEEE Transactions on Automatic Control, 2021, 66, 4365-4370.	3.6	16
6	Linear matrix inequality-based solution for memory static output-feedback control of discrete-time linear systems affected by time-varying parameters. International Journal of Robust and Nonlinear Control, 2021, 31, 4324-4336.	2.1	3
7	A new approach of \mathcal{H}_∞ filtering for combustion systems using optical instrumentation. ISA Transactions, 2021, , .	3.1	1
8	A new approach for quasi-LPV modeling and state-feedback control of nonlinear systems with application on a 5-DOF pendulum. , 2021, , .		0
9	A less conservative approach to handle time-varying parameters in discrete-time linear parameter-varying systems with applications in networked control systems. International Journal of Robust and Nonlinear Control, 2020, 30, 3521-3546.	2.1	9
10	Linear Matrix Inequalities for Digital Redesign Under Delay Suitable for PI Controllers with Application to PMSMs. Journal of Control, Automation and Electrical Systems, 2019, 30, 479-489.	1.2	5
11	Local stability analysis and estimation of domains of attraction for nonlinear systems via Takagi-Sugeno fuzzy modeling. , 2019, , .		2
12	\mathcal{H}_2 gain-scheduled design subject to inexact measurements: performance comparison of two models for additive uncertainty. , 2019, , .		0
13	Digital redesign of analogue dynamic output-feedback controllers for polytopic systems. International Journal of Control, 2019, 92, 1764-1777.	1.2	0
14	Algorithm 998. ACM Transactions on Mathematical Software, 2019, 45, 1-25.	1.6	64
15	An artificial intelligence-based method to efficiently bring CFD to building simulation. Journal of Building Performance Simulation, 2018, 11, 588-603.	1.0	14
16	\mathcal{H}_2 and \mathcal{H}_∞ mode-independent state-feedback control of generalized Bernoulli jump systems with uncertain probabilities*. , 2018, , .		0
17	\mathcal{H}_∞ state-feedback gain-scheduled control for MJLS with non-homogeneous Markov chains. , 2018, , .		1
18	\mathcal{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

#	ARTICLE	IF	CITATIONS
19	Robust Stability Analysis of Grid-Connected Converters Based on Parameter-Dependent Lyapunov Functions. Journal of Control, Automation and Electrical Systems, 2017, 28, 159-170.	1.2	4
20	Reduced-order dynamic output feedback control of uncertain discrete-time Markov jump linear systems. International Journal of Control, 2017, 90, 2368-2383.	1.2	17
21	Robust non-minimal order filter and smoother design for discrete-time uncertain systems. International Journal of Robust and Nonlinear Control, 2017, 27, 661-678.	2.1	9
22	An LMI approach for robust stabilization of aperiodic uncertain sampled-data systems. , 2017, , .		1
23	Robust H_∞ filtering with auxiliary past output measurements. , 2016, , .		1
24	Fixed-Order Linear Parameter-Varying Feedback Control of a Lab-Scale Overhead Crane. IEEE Transactions on Control Systems Technology, 2016, 24, 1899-1907.	3.2	15
25	An iterative LMI based procedure for robust stabilization of continuous-time polytopic systems. , 2016, , .		6
26	Robust H_2 filtering for discrete-time uncertain systems with auxiliary past output measurements. , 2016, , .		0
27	State-feedback and filtering problems using the generalized KYP lemma. , 2016, , .		9
28	and control design for polytopic continuous-time Markov jump linear systems with uncertain transition rates. International Journal of Robust and Nonlinear Control, 2016, 26, 599-612.	2.1	29
29	Linear quadratic networked control of uncertain polytopic systems. International Journal of Robust and Nonlinear Control, 2016, 26, 2299-2313.	2.1	4
30	An iterative convex approach for fixed-order robust H_2/H_∞ control of discrete-time linear systems with parametric uncertainty. , 2015, , .		0
31	Robust H_2/H_∞ memory filters for uncertain discrete-time linear systems. , 2015, , .		2
32	and filter design for polytopic continuous-time Markov jump linear systems with uncertain transition rates. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1207-1223.	2.3	16
33	H_2 filter design through multi-simplex modeling for discrete-time Markov jump linear systems with partly unknown transition probability matrix. , 2014, , .		5
34	Mode-Independent H_2 Control of a DC Motor Modeled as a Markov Jump Linear System. IEEE Transactions on Control Systems Technology, 2014, 22, 1915-1919.	3.2	93
35	LMI-Based Control for Grid-Connected Converters With LCL Filters Under Uncertain Parameters. IEEE Transactions on Power Electronics, 2014, 29, 3776-3785.	5.4	128
36	H_2/H_∞ static output feedback control of discrete-time Markov jump linear systems with uncertain transition probability matrix. , 2014, , .		7

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37	Robust H_2 and H_∞ guaranteed cost computation of discretized uncertain continuous-time systems. , 2014, , .		1
38	LMI Relaxations for H_∞ and H_2 Static Output Feedback of Takagi-Sugeno Continuous-Time Fuzzy Systems. Journal of Control, Automation and Electrical Systems, 2013, 24, 33-45.	1.2	7
39	Robust state feedback control for discrete-time linear systems via LMIs with a scalar parameter. , 2013, , .		24
40	Digital redesign LMI conditions for state feedback controllers with an application for power electronics. , 2013, , .		3
41	Robust H_2 and H_∞ dynamic output feedback for LPV systems subject to inexactly measured scheduling parameters. , 2013, , .		16
42	A new procedure for discretization and state feedback control of uncertain linear systems. , 2013, , .		19
43	LMI Relaxations for Reduced-Order Robust H_∞ Control of Continuous-Time Uncertain Linear Systems. IEEE Transactions on Automatic Control, 2012, 57, 1532-1537.	3.6	89
44	Selective H_2 and H_∞ Stabilization of Takagi-Sugeno Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2011, 19, 890-900.	6.5	67
45	Robust H_2 static output feedback design starting from a parameter-dependent state feedback controller for time-invariant discrete-time polytopic systems. Optimal Control Applications and Methods, 2011, 32, 1-13.	1.3	27
46	Improved stabilization conditions for Takagi-Sugeno fuzzy systems via fuzzy integral Lyapunov functions. , 2011, , .		11
47	A BMI approach for H_2 gain scheduling of discrete time-varying systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1255-1268.	2.1	19
48	RelaxaÃµes convexas de convergÃncia garantida para o projeto de controladores para sistemas nebulosos de Takagi-Sugeno. Controle and Automacao, 2010, 21, 82-95.	0.2	2
49	Robust H_2 and H_∞ static output-feedback design for time-invariant discrete-time polytopic systems from parameter-dependent state-feedback gains. , 2010, , .		20
50	Static output feedback control of polytopic systems using polynomial Lyapunov functions. , 2010, , .		21
51	Selective stabilization of Takagi-Sugeno fuzzy systems. , 2010, , .		4
52	Convergent LMI Relaxations for Quadratic Stabilizability and H_∞ Control of Takagi-Sugeno Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 863-873.	6.5	116
53	LMI relaxations for nonquadratic stabilization of discrete-time Takagi-Sugeno systems based on polynomial fuzzy Lyapunov functions. , 2009, , .		3
54	A simulation environment for performance analysis of HVAC systems. Building Simulation, 2008, 1, 129-143.	3.0	13

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55	A convex optimization procedure to compute $\hat{\sigma}_2$ and $\hat{\sigma}^*$ norms for uncertain linear systems in polytopic domains. Optimal Control Applications and Methods, 2008, 29, 295-312.	1.3	28
56	Robust LMIs with parameters in multi-simplex: Existence of solutions and applications. , 2008, , .		67
57	Robust stability analysis and control design for time-varying discrete-time polytopic systems with bounded parameter variation. , 2008, , .		14
58	Schur stability of polytopic systems through positivity analysis of matrix-valued polynomials. , 2007, , .		1
59	Parameter-Dependent LMIs in Robust Analysis: Characterization of Homogeneous Polynomially Parameter-Dependent Solutions Via LMI Relaxations. IEEE Transactions on Automatic Control, 2007, 52, 1334-1340.	3.6	376
60	LMI relaxations for robust H2 performance analysis of polytopic linear systems. , 2006, , .		13
61	A Simple and Less Conservative Test for \mathbb{D} -Stability. SIAM Journal on Matrix Analysis and Applications, 2004, 26, 415-425.	0.7	7