

Carlos E De Souza

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69
papers

3,409
citations

24
h-index

58
g-index

74
ext. papers

4,312
ext. citations

3.5
avg, IF

5.21
L-index

#	Paper	IF	Citations
69	Robust control of a class of uncertain nonlinear systems. <i>Systems and Control Letters</i> , 1992 , 19, 139-149	2.4	990
68	Criteria for robust stability and stabilization of uncertain linear systems with state delay. <i>Automatica</i> , 1997 , 33, 1657-1662	5.7	328
67	Delay-dependent robust H_∞ control of uncertain linear state-delayed systems. <i>Automatica</i> , 1999 , 35, 1313-1321	5.7	306
66	Mode-Independent \mathcal{H}_∞ Filters for Markovian Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1837-1841	5.9	230
65	H_∞ estimation for discrete-time linear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 1991 , 1, 111-123	3.6	152
64	H_∞ estimation for uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 1992 , 2, 87-105	3.6	127
63	On the discrete-time bounded real Lemma with application in the characterization of static state feedback controllers. <i>Systems and Control Letters</i> , 1992 , 18, 61-71	2.4	112
62	State estimation for linear discrete-time systems using quantized measurements. <i>Automatica</i> , 2009 , 45, 2937-2945	5.7	110
61	Input and Output Quantized Feedback Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 761-766	5.9	100
60	An LMI approach to stabilization of linear discrete-time periodic systems. <i>International Journal of Control</i> , 2000 , 73, 696-703	1.5	79
59	Robust H_2 filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. <i>Systems and Control Letters</i> , 2005 , 54, 251-262	2.4	69
58	H_∞ filtering for a class of uncertain nonlinear systems. <i>Systems and Control Letters</i> , 1993 , 20, 419-426	2.4	64
57	An adaptive control algorithm for linear systems having unknown time delay. <i>Automatica</i> , 1988 , 24, 327-341	3.4	57
56	Robust filtering for 2-D discrete-time linear systems with convex-bounded parameter uncertainty. <i>Automatica</i> , 2010 , 46, 673-681	5.7	55
55	Robust filtering for a class of discrete-time uncertain nonlinear systems: An H_∞ approach. <i>International Journal of Robust and Nonlinear Control</i> , 1996 , 6, 297-312	3.6	50
54	Robust control for linear time-invariant systems with norm-bounded uncertainty in the input matrix. <i>Systems and Control Letters</i> , 1990 , 14, 389-396	2.4	50
53	H_∞ filtering for discrete-time linear systems with Markovian jumping parameters. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 1299-1316	3.6	45

52	H ∞ filtering for linear periodic systems with parameter uncertainty. <i>Systems and Control Letters</i> , 1991 , 17, 343-350	2.4	44
51	Delay-dependent robust stability and . <i>Automatica</i> , 2008 , 44, 2006-2018	5.7	40
50	Robust stability and control of uncertain linear discrete-time periodic systems with time-delay. <i>Automatica</i> , 2014 , 50, 431-441	5.7	33
49	Robust H ∞ filtering for uncertain Markovian jump linear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2002 , 12, 435-446	3.6	33
48	9. A Linear Matrix Inequality Approach to the Design of Robust H $_2$ Filters 2000 , 175-185		33
47	Robust filtering for uncertain linear discrete-time descriptor systems. <i>Automatica</i> , 2008 , 44, 792-798	5.7	32
46	Riccati differential equation in optimal filtering of periodic non-stabilizable systems. <i>International Journal of Control</i> , 1987 , 46, 1235-1250	1.5	26
45	On the existence of maximal solution for generalized algebraic Riccati equations arising in stochastic control. <i>Systems and Control Letters</i> , 1990 , 14, 233-239	2.4	24
44	Robust Stability of a Class of Uncertain Markov Jump Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1825-1831	5.9	22
43	Stability Analysis of Implicit Polynomial Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1012-1018	5.0	20
42	Robust Filtering for Linear Systems With Convex-Bounded Uncertain Time-Varying Parameters. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1132-1138	5.9	19
41	Gain-scheduled control of two-dimensional discrete-time linear parameter-varying systems in the Roesser model. <i>Automatica</i> , 2013 , 49, 101-110	5.7	18
40	Local stability analysis and domain of attraction estimation for a class of uncertain nonlinear discrete-time systems. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1456-1471	3.6	15
39	Robust H ∞ filtering for a class of discrete-time Lipschitz nonlinear systems. <i>Automatica</i> , 2019 , 103, 69-80	5.7	15
38	Admissibility analysis of discrete linear time-varying descriptor systems. <i>Automatica</i> , 2018 , 91, 136-143	5.7	11
37	Criteria for Robust Stability of Uncertain Linear Systems with Time-Varying State Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 3532-3537		10
36	Existence conditions and properties for the maximal periodic solution of periodic Riccati difference equations. <i>International Journal of Control</i> , 1989 , 50, 731-742	1.5	10
35	Stability Analysis of Finite-Level Quantized Discrete-Time Linear Control Systems. <i>European Journal of Control</i> , 2010 , 16, 258-271	2.5	9

34	Robust Linear H_{∞} Filter Design for a Class of Uncertain Nonlinear Systems: An LMI Approach. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 1452-1472	1.9	9
33	Robust H_{∞} Filter Design via Parameter-Dependent Lyapunov Functions *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 65-70		6
32	Maximal solution of a certain class of periodic Riccati differential equations. <i>Linear Algebra and Its Applications</i> , 1992 , 169, 61-73	0.9	6
31	Regional Stability Analysis of Implicit Polynomial Systems 2006 ,		5
30	Input and Output Finite-Level Quantized Linear Control Systems: Stability Analysis and Quantizer Design. <i>Journal of Control, Automation and Electrical Systems</i> , 2015 , 26, 105-114	1.5	4
29	Robust stability of discrete-time linear descriptor systems with time-varying uncertainties via parametric Lyapunov function 2012 ,		4
28	Delay-Dependent Regional Stabilization of Nonlinear Quadratic Time-Delay Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10084-10089		3
27	State Estimation Using Quantized Measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 12492-12497		3
26	H_{∞} Filtering for a Class of Uncertain Markov Jump Nonlinear Systems 2006 ,		3
25	Robust H_{∞} Filtering for Linear Continuous-Time Uncertain Systems With Multiple Delays: An LMI Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 249-254		3
24	Adaptive control of a coupled tank apparatus. <i>International Journal of Adaptive Control and Signal Processing</i> , 1989 , 3, 319-331	2.8	3
23	State feedback H_{∞} optimal control problems for non-detectable systems. <i>Systems and Control Letters</i> , 1989 , 13, 315-319	2.4	3
22	Bounded real lemma for discrete linear time-varying descriptor systems 2017 ,		2
21	Stability analysis of input and output finite level quantized discrete-time linear control systems 2012 ,		2
20	Stability of Linear Discrete-Time Periodic Systems with Time-Delay*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 51-56		2
19	Delay-Dependent Robust Stabilization of Uncertain Linear State-Delayed Systems via Static Output Feedback. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 1-6		2
18	Quantized control of nonlinear quadratic discrete-time systems 2016 ,		2
17	Regional Stabilization of Input-Delayed Uncertain Nonlinear Polynomial Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2300-2307	5.9	2

- 16 Local Stabilization of Markov Jump Nonlinear Quadratic Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 8725-8730 1
- 15 Gain-Scheduled H_{∞} Controller Synthesis for 2-D Discrete-Time Linear Parameter-Varying Systems*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 10168-10173 1
- 14 Stabilization of Quadratic Time-Delay Systems with a Guaranteed Region of Stability¹. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 25-30 1
- 13 Robust Domain of Attraction Estimates for a Class of Uncertain Discrete-Time Nonlinear Systems*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 185-190 1
- 12 Robust H_{∞} Control for uncertain discrete-time state-delayed linear systems with markovian jumping parameters. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 89-94 1
- 11 ROBUST H_2 FILTER DESIGN VIA PARAMETER-DEPENDENT LYAPUNOV FUNCTIONS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 371-376 1
- 10 H_{∞} CONTROL OF A CLASS OF UNCERTAIN NONLINEAR SYSTEMS: AN OBSERVER-BASED CONTROLLER DESIGN. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1996**, 29, 3562-3567 1
- 9 ROBUST CONTROL AND FILTERING OF DISCRETE-TIME UNCERTAIN DYNAMICAL SYSTEMS **1992**, 160-163 0
- 8 Robust Filtering for Linear Polytopic Discrete-Time Periodic Systems*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 166-171
- 7 Delay-Dependent Regional Stability of a Class of Uncertain Nonlinear State-Delayed Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 265-270
- 6 ON THE DESIGN OF HIGH-ORDER ROBUST LINEAR H_{∞} FILTERS FOR A CLASS OF UNCERTAIN NONLINEAR SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 979-984
- 5 H_{∞} FILTERING FOR DISCRETE-TIME PIECEWISE LINEAR SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 958-963
- 4 Output feedback stabilization of linear systems with delayed input *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 39-43
- 3 Stability and stabilization of linear state-delayed systems with multiplicative noise *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 51-56
- 2 H_{∞} Filtering for Continuous-Time Linear Systems with Delay. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1996**, 29, 4476-4481
- 1 Robust Control and Filtering of Discrete-Time Uncertain Dynamical Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1992**, 25, 160-163