

Carlos E De Souza

List of Publications by Year in descending order

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74
papers

4,783
citations

218381

26
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155451

55
g-index

74
all docs

74
docs citations

74
times ranked

1971
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust control of a class of uncertain nonlinear systems. Systems and Control Letters, 1992, 19, 139-149.	1.3	1,352
2	Criteria for robust stability and stabilization of uncertain linear systems with state delay. Automatica, 1997, 33, 1657-1662.	3.0	446
3	Delay-dependent robust H^∞ control of uncertain linear state-delayed systems. Automatica, 1999, 35, 1313-1321.	3.0	421
4	Mode-Independent H_∞ Filters for Markovian Jump Linear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1837-1841.	3.6	279
5	H^∞ estimation for discrete-time linear uncertain systems. International Journal of Robust and Nonlinear Control, 1991, 1, 111-123.	2.1	208
6	H^∞ estimation for uncertain systems. International Journal of Robust and Nonlinear Control, 1992, 2, 87-105.	2.1	195
7	On the discrete-time bounded real Lemma with application in the characterization of static state feedback controllers. Systems and Control Letters, 1992, 18, 61-71.	1.3	180
8	State estimation for linear discrete-time systems using quantized measurements. Automatica, 2009, 45, 2937-2945.	3.0	157
9	Input and Output Quantized Feedback Linear Systems. IEEE Transactions on Automatic Control, 2010, 55, 761-766.	3.6	155
10	An LMI approach to stabilization of linear discrete-time periodic systems. International Journal of Control, 2000, 73, 696-703.	1.2	109
11	H^∞ filtering for a class of uncertain nonlinear systems. Systems and Control Letters, 1993, 20, 419-426.	1.3	94
12	Robust filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. Systems and Control Letters, 2005, 54, 251-262.	1.3	90
13	An adaptive control algorithm for linear systems having unknown time delay. Automatica, 1988, 24, 327-341.	3.0	81
14	Robust control for linear time-invariant systems with norm-bounded uncertainty in the input matrix. Systems and Control Letters, 1990, 14, 389-396.	1.3	72
15	H^∞ filtering for linear periodic systems with parameter uncertainty. Systems and Control Letters, 1991, 17, 343-350.	1.3	70
16	Robust filtering for 2-D discrete-time linear systems with convex-bounded parameter uncertainty. Automatica, 2010, 46, 673-681.	3.0	68
17	Robust filtering for a class of discrete-time uncertain nonlinear systems: An H^∞ approach. International Journal of Robust and Nonlinear Control, 1996, 6, 297-312.	2.1	64
18	?? filtering for discrete-time linear systems with Markovian jumping parameters?. International Journal of Robust and Nonlinear Control, 2003, 13, 1299-1316.	2.1	59

#	ARTICLE	IF	CITATIONS
19	Delay-dependent robust stability and analysis of a class of nonlinear time-delay systems. Automatica, 2008, 44, 2006-2018.	3.0	52
20	9. A Linear Matrix Inequality Approach to the Design of Robust H_2 Filters. , 2000, , 175-185.		49
21	Robust filtering for uncertain Markovian jump linear systems. International Journal of Robust and Nonlinear Control, 2002, 12, 435-446.	2.1	46
22	Robust filtering for uncertain linear discrete-time descriptor systems. Automatica, 2008, 44, 792-798.	3.0	44
23	Robust stability and control of uncertain linear discrete-time periodic systems with time-delay. Automatica, 2014, 50, 431-441.	3.0	42
24	On the existence of maximal solution for generalized algebraic Riccati equations arising in stochastic control. Systems and Control Letters, 1990, 14, 233-239.	1.3	38
25	Riccati differential equation in optimal filtering of periodic non-stabilizable systems. International Journal of Control, 1987, 46, 1235-1250.	1.2	32
26	Criteria for Robust Stability of Uncertain Linear Systems with Time-Varying State Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 3532-3537.	0.4	32
27	Robust Stability of a Class of Uncertain Markov Jump Nonlinear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1825-1831.	3.6	30
28	Robust Filtering for Linear Systems With Convex-Bounded Uncertain Time-Varying Parameters. IEEE Transactions on Automatic Control, 2007, 52, 1132-1138.	3.6	27
29	Stability Analysis of Implicit Polynomial Systems. IEEE Transactions on Automatic Control, 2009, 54, 1012-1018.	3.6	26
30	Robust H_2 filtering for a class of discrete-time Lipschitz nonlinear systems. Automatica, 2019, 103, 69-80.	3.0	24
31	Gain-scheduled control of two-dimensional discrete-time linear parameter-varying systems in the Roesser model. Automatica, 2013, 49, 101-110.	3.0	23
32	Admissibility analysis of discrete linear time-varying descriptor systems. Automatica, 2018, 91, 136-143.	3.0	20
33	H_2 Filtering for Continuous-Time Linear Systems with Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4476-4481.	0.4	19
34	Local stability analysis and domain of attraction estimation for a class of uncertain nonlinear discrete-time systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1456-1471.	2.1	18
35	Robust H_2 Filtering for Linear Continuous-Time Uncertain Systems With Multiple Delays: An LMI Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 249-254.	0.4	14
36	ROBUST H_2 FILTER DESIGN VIA PARAMETER-DEPENDENT LYAPUNOV FUNCTIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 371-376.	0.4	13

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37	Existence conditions and properties for the maximal periodic solution of periodic Riccati difference equations. International Journal of Control, 1989, 50, 731-742.	1.2	11
38	Robust Linear H_{∞} Filter Design for a Class of Uncertain Nonlinear Systems: An LMI Approach. SIAM Journal on Control and Optimization, 2009, 48, 1452-1472.	1.1	11
39	Maximal solution of a certain class of periodic Riccati differential equations. Linear Algebra and Its Applications, 1992, 169, 61-73.	0.4	10
40	Stability Analysis of Finite-Level Quantized Discrete-Time Linear Control Systems. European Journal of Control, 2010, 16, 258-271.	1.6	9
41	State Estimation Using Quantized Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12492-12497.	0.4	8
42	Regional Stabilization of Input-Delayed Uncertain Nonlinear Polynomial Systems. IEEE Transactions on Automatic Control, 2020, 65, 2300-2307.	3.6	8
43	Robust H_{∞} Filter Design via Parameter-Dependent Lyapunov Functions *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 65-70.	0.4	7
44	Regional Stability Analysis of Implicit Polynomial Systems. , 2006, , .		7
45	Robust stability of discrete-time linear descriptor systems with time-varying uncertainties via parametric Lyapunov function. , 2012, , .		7
46	Input and Output Finite-Level Quantized Linear Control Systems: Stability Analysis and Quantizer Design. Journal of Control, Automation and Electrical Systems, 2015, 26, 105-114.	1.2	7
47	Adaptive control of a coupled tank apparatus. International Journal of Adaptive Control and Signal Processing, 1989, 3, 319-331.	2.3	6
48	Local Stabilization of Markov Jump Nonlinear Quadratic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8725-8730.	0.4	5
49	State feedback H_{∞} optimal control problems for non-detectable systems. Systems and Control Letters, 1989, 13, 315-319.	1.3	4
50	H_{∞} Filtering for a Class of Uncertain Markov Jump Nonlinear Systems. , 2006, , .		4
51	Stability analysis of input and output finite level quantized discrete-time linear control systems. , 2012, , .		4
52	Delay-Dependent Regional Stabilization of Nonlinear Quadratic Time-Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10084-10089.	0.4	4
53	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.	0.4	3
54	Robust Control and Filtering of Discrete-Time Uncertain Dynamical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1992, 25, 160-163.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Delay-Dependent Robust Stabilization of Uncertain Linear State-Delayed Systems via Static Output Feedback *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 1-6.	0.4	2
56	Stability of Linear Discrete-Time Periodic Systems with Time-Delay*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 51-56.	0.4	2
57	Robust tuning of current self-controlled single-phase PFC boost converters. , 2015, , .		2
58	Quantized control of nonlinear quadratic discrete-time systems. , 2016, , .		2
59	Bounded real lemma for discrete linear time-varying descriptor systems. , 2017, , .		2
60	ROBUST CONTROL AND FILTERING OF DISCRETE-TIME UNCERTAIN DYNAMICAL SYSTEMS. , 1992, , 160-163.		1
61	Stability and stabilization of linear state-delayed systems with multiplicative noise *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 51-56.	0.4	1
62	Robust H_∞ control for uncertain discrete-time state-delayed linear systems with markovian jumping parameters 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 89-94.	0.4	1
63	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.	0.4	1
64	H_∞ filtering for a class of 2-D discrete-time parameter-varying systems. , 2011, , .		1
65	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.	0.4	1
66	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.	0.4	1
67	Output feedback stabilization of linear systems with delayed input *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 39-43.	0.4	0
68	H_∞ FILTERING FOR DISCRETE-TIME PIECEWISE LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 958-963.	0.4	0
69	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.	0.4	0
70	Estimating delay-dependent stability regions for a class of nonlinear time-delay systems. , 2007, , .		0
71	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.	0.4	0
72	Regional robust H_∞ filtering for dynamic systems. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Robust Filtering for Linear Polytopic Discrete-Time Periodic Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 166-171.	0.4	0
74	Numerically tractable stability tests for 2-D singular discrete-time systems. , 2013, , .		0