Carlos E De Souza

List of Publications by Year in Descending Order

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	Regional Stabilization of Input-Delayed Uncertain Nonlinear Polynomial Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 2300-2307	5.9	2
68	Robust H filtering for a class of discrete-time Lipschitz nonlinear systems. *Automatica*, **2019**, 103, 69-80	5.7	15
67	Admissibility analysis of discrete linear time-varying descriptor systems. *Automatica*, **2018**, 91, 136-143	5.7	11
66	Bounded real lemma for discrete linear time-varying descriptor systems **2017**,		2
65	Quantized control of nonlinear quadratic discrete-time systems **2016**,		2
64	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	1.5	4
63	Delay-Dependent Regional Stabilization of Nonlinear Quadratic Time-Delay Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 10084-10089		3
62	Local Stabilization of Markov Jump Nonlinear Quadratic Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 8725-8730		1
61	Robust stability and control of uncertain linear discrete-time periodic systems with time-delay. *Automatica*, **2014**, 50, 431-441	5.7	33
60	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	3.6	15
59	Gain-scheduled control of two-dimensional discrete-time linear parameter-varying systems in the Roesser model. *Automatica*, **2013**, 49, 101-110	5.7	18
58	Stability analysis of input and output finite level quantized discrete-time linear control systems **2012**,		2
57	Robust stability of discrete-time linear descriptor systems with time-varying uncertainties via parametric Lyapunov function **2012**,		4
56	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
55	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
54	Stability Analysis of Finite-Level Quantized Discrete-Time Linear Control Systems. *European Journal of Control*, **2010**, 16, 258-271	2.5	9
53	Input and Output Quantized Feedback Linear Systems. *IEEE Transactions on Automatic Control*, **2010**, 55, 761-766	5.9	100

52	Stability of Linear Discrete-Time Periodic Systems with Time-Delay*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 51-56		2
51	Robust Filtering for Linear Polytopic Discrete-Time Periodic Systems*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 166-171		
50	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
49	Robust filtering for 2-D discrete-time linear systems with convex-bounded parameter uncertainty. *Automatica*, **2010**, 46, 673-681	5.7	55
48	State estimation for linear discrete-time systems using quantized measurements. *Automatica*, **2009**, 45, 2937-2945	5.7	110
47	Stability Analysis of Implicit Polynomial Systems. *IEEE Transactions on Automatic Control*, **2009**, 54, 1012-1018	7.9	20
46	Robust Linear H_{infty} Filter Design for a Class of Uncertain Nonlinear Systems: An LMI Approach. *SIAM Journal on Control and Optimization*, **2009**, 48, 1452-1472	1.9	9
45	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		
44	State Estimation Using Quantized Measurements. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 12492-12497		3
43	Delay-dependent robust stability and . *Automatica*, **2008**, 44, 2006-2018	5.7	40
42	Robust filtering for uncertain linear discrete-time descriptor systems. *Automatica*, **2008**, 44, 792-798	5.7	32
41	Robust Filtering for Linear Systems With Convex-Bounded Uncertain Time-Varying Parameters. *IEEE Transactions on Automatic Control*, **2007**, 52, 1132-1138	5.9	19
40	H Filtering for a Class of Uncertain Markov Jump Nonlinear Systems **2006**,		3
39	Regional Stability Analysis of Implicit Polynomial Systems **2006**,		5
38	Robust Stability of a Class of Uncertain Markov Jump Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2006**, 51, 1825-1831	5.9	22
37	Mode-Independent ${cal H}_{infty}$ Filters for Markovian Jump Linear Systems. *IEEE Transactions on Automatic Control*, **2006**, 51, 1837-1841	5.9	230
36	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		
35	H FILTERING FOR DISCRETE-TIME PIECEWISE LINEAR SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 958-963		

34	Robust H2 filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. *Systems and Control Letters*, **2005**, 54, 251-262	2.4	69
33	H Filtering for discrete-time linear systems with Markovian jumping parameters *International Journal of Robust and Nonlinear Control*, **2003**, 13, 1299-1316	3.6	45
32	Robust H Filtering for uncertain Markovian jump linear systems. *International Journal of Robust and Nonlinear Control*, **2002**, 12, 435-446	3.6	33
31	ROBUST H2 FILTER DESIGN VIA PARAMETER-DEPENDENT LYAPUNOV FUNCTIONS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 371-376		1
30	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
29	Robust H 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		3
28	Output feedback stabilization of linear systems with delayed input *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 39-43		
27	Stability and stabilization of linear state-delayed systems with multiplicative noise *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 51-56		
26	Robust H Filter Design via Parameter-Dependent Lyapunov Functions *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 65-70		6
25	9. A Linear Matrix Inequality Approach to the Design of Robust H2 Filters **2000**, 175-185		33
24	An LMI approach to stabilization of linear discrete-time periodic systems. *International Journal of Control*, **2000**, 73, 696-703	1.5	79
23	Delay-dependent robust H control of uncertain linear state-delayed systems. *Automatica*, **1999**, 35, 1313-1321	5.7	306
22	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		2
21	Criteria for robust stability and stabilization of uncertain linear systems with state delay. *Automatica*, **1997**, 33, 1657-1662	5.7	328
20	H Filtering for Continuous-Time Linear Systems with Delay. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1996**, 29, 4476-4481		
19	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		10
18	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
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	3.6	50

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16	H∞ Filtering for a class of uncertain nonlinear systems. *Systems and Control Letters*, **1993**, 20, 419-426	2.4	64
15	Robust Control and Filtering of Discrete-Time Uncertain Dynamical Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1992**, 25, 160-163		
14	ROBUST CONTROL AND FILTERING OF DISCRETE-TIME UNCERTAIN DYNAMICAL SYSTEMS **1992**, 160-163		0
13	Maximal solution of a certain class of periodic Riccati differential equations. *Linear Algebra and Its Applications*, **1992**, 169, 61-73	0.9	6
12	Robust control of a class of uncertain nonlinear systems. *Systems and Control Letters*, **1992**, 19, 139-149	2.4	990
11	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	2.4	112
10	H∞ estimation for uncertain systems. *International Journal of Robust and Nonlinear Control*, **1992**, 2, 87-105	3.6	127
9	H∞ Filtering for linear periodic systems with parameter uncertainty. *Systems and Control Letters*, **1991**, 17, 343-350	2.4	44
8	H∞ estimation for discrete-time linear uncertain systems. *International Journal of Robust and Nonlinear Control*, **1991**, 1, 111-123	3.6	152
7	On the existence of maximal solution for generalized algebraic Riccati equations arising in stochastic control. *Systems and Control Letters*, **1990**, 14, 233-239	2.4	24
6	Robust control for linear time-invariant systems with norm-bounded uncertainty in the input matrix. *Systems and Control Letters*, **1990**, 14, 389-396	2.4	50
5	Adaptive control of a coupled tank apparatus. *International Journal of Adaptive Control and Signal Processing*, **1989**, 3, 319-331	2.8	3
4	State feedback H∞ optimal control problems for non-detectable systems. *Systems and Control Letters*, **1989**, 13, 315-319	2.4	3
3	Existence conditions and properties for the maximal periodic solution of periodic Riccati difference equations. *International Journal of Control*, **1989**, 50, 731-742	1.5	10
2	An adaptive control algorithm for linear systems having unknown time delay. *Automatica*, **1988**, 24, 327-331	3.7	57
1	Riccati differential equation in optimal filtering of periodic non-stabilizable systems. *International Journal of Control*, **1987**, 46, 1235-1250	1.5	26