

# Carlos de Souza

## List of Publications by Year in descending order

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135  
papers

9,802  
citations

53751

45  
h-index

38368

95  
g-index

135  
all docs

135  
docs citations

135  
times ranked

3081  
citing authors



#	ARTICLE	IF	CITATIONS
19	Gain-scheduled control of two-dimensional discrete-time linear parameter-varying systems in the Roesser model. <i>Automatica</i> , 2013, 49, 101-110.	3.0	23
20	Numerically tractable stability tests for 2-D singular discrete-time systems. , 2013, , .		0
21	Robust stability of discrete-time linear descriptor systems with time-varying uncertainties via parametric Lyapunov function. , 2012, , .		7
22	Stabilization of Quadratic Time-Delay Systems with a Guaranteed Region of Stability <sup>1</sup> . IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 25-30.	0.4	1
23	Nonlinear State Feedback Design With a Guaranteed Stability Domain for Locally Stabilizable Unstable Quadratic Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 360-370.	3.5	46
24	Stability analysis of input and output finite level quantized discrete-time linear control systems. , 2012, , .		4
25	$H_{\infty}$ filtering for a class of 2-D discrete-time parameter-varying systems. , 2011, , .		1
26	Kalman filtering over fading channels with both transmission failure and signal fluctuation. , 2011, , .		5
27	Gain-scheduled $H_{\infty}$ control of two-dimensional discrete-time linear parametrically-varying systems. , 2011, , .		1
28	Nonlinear control design for open-loop unstable quadratic discrete-time systems. , 2011, , .		6
29	Gain-Scheduled $H_{\infty}$ 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
30	Control design for open-loop unstable quadratic systems. , 2011, , .		2
31	Parameter-dependent robust $H_{\infty}$ filtering for linear systems with time-varying delay and rational parameter uncertainty. <i>IMA Journal of Mathematical Control and Information</i> , 2011, 28, 203-224.	1.1	1
32	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
33	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
34	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
35	Robust filtering for 2-D discrete-time linear systems with convex-bounded parameter uncertainty. <i>Automatica</i> , 2010, 46, 673-681.	3.0	68
36	Stability Analysis of Finite-Level Quantized Discrete-Time Linear Control Systems. <i>European Journal of Control</i> , 2010, 16, 258-271.	1.6	9

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37	Input and Output Quantized Feedback Linear Systems. IEEE Transactions on Automatic Control, 2010, 55, 761-766.	3.6	155
38	Regional robust H <sub>∞</sub> filtering for dynamic systems. , 2009, , .		0
39	State estimation for linear discrete-time systems using quantized measurements. Automatica, 2009, 45, 2937-2945.	3.0	157
40	Robust $\mathcal{H}_\infty$ filtering for dynamic systems with convex bounded uncertainty. , 2007, , .	3.0	16
41	Stability Analysis of Implicit Polynomial Systems. IEEE Transactions on Automatic Control, 2009, 54, 1012-1018.	3.6	26
42	Robust Linear $\mathcal{H}_\infty$ Filter Design for a Class of Uncertain Nonlinear Systems: An LMI Approach. SIAM Journal on Control and Optimization, 2009, 48, 1452-1472.	1.1	11
43	Delay-dependent robust stability and $\mathcal{H}_\infty$ analysis of a class of nonlinear time-delay systems. Automatica, 2008, 44, 2006-2018.	3.0	52
44	Robust filtering for uncertain linear discrete-time descriptor systems. Automatica, 2008, 44, 792-798.	3.0	44
45	Output feedback control of linear systems with input and output quantization. , 2008, , .		11
46	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
47	State Estimation Using Quantized Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12492-12497.	0.4	8
48	A Scaling LMI Approach to Output Feedback Control of Discrete-time LTI Systems. , 2007, , .		0
49	Robust $H_\infty$ filtering for linear descriptor systems with convex bounded uncertainty. , 2007, , .		4
50	Robust Filtering for Linear Systems With Convex-Bounded Uncertain Time-Varying Parameters. IEEE Transactions on Automatic Control, 2007, 52, 1132-1138.	3.6	27
51	Estimating delay-dependent stability regions for a class of nonlinear time-delay systems. , 2007, , .		0
52	Robust $H_\infty$ filtering for discrete-time linear systems with uncertain time-varying parameters. IEEE Transactions on Signal Processing, 2006, 54, 2110-2118.	3.2	100
53	Robust Stability and Stabilization of Uncertain Discrete-Time Markovian Jump Linear Systems. IEEE Transactions on Automatic Control, 2006, 51, 836-841.	3.6	241
54	Robust Stability of a Class of Uncertain Markov Jump Nonlinear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1825-1831.	3.6	30

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55	Mode-Independent $H_{\infty}$ Filters for Markovian Jump Linear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1837-1841.	3.6	279
56	ON THE DESIGN OF HIGH-ORDER ROBUST LINEAR $H_{\infty}$ FILTERS FOR A CLASS OF UNCERTAIN NONLINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 979-984.	0.4	0
57	Gain-scheduled $H_2$ controller synthesis for linear parameter varying systems via parameter-dependent Lyapunov functions. International Journal of Robust and Nonlinear Control, 2006, 16, 243-257.	2.1	78
58	Theory, algorithms and technology in the design of control systems. Annual Reviews in Control, 2006, 30, 19-30.	4.4	32
59	$H_{\infty}$ Filtering for a Class of Uncertain Markov Jump Nonlinear Systems. , 2006, , .		4
60	Regional Stability Analysis of Implicit Polynomial Systems. , 2006, , .		7
61	$H_{\infty}$ FILTERING FOR DISCRETE-TIME PIECEWISE LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 958-963.	0.4	0
62	Robust filtering for uncertain linear systems: LMI based methods with parametric Lyapunov functions. Systems and Control Letters, 2005, 54, 251-262.	1.3	90
63	Parametric Lyapunov function approach to $H_2$ analysis and control of linear parameter-dependent systems. IET Control Theory and Applications, 2003, 150, 501-508.	1.7	38
64	?? filtering for discrete-time linear systems with Markovian jumping parameters?. International Journal of Robust and Nonlinear Control, 2003, 13, 1299-1316.	2.1	59
65	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
66	$H_{\infty}$ filtering for Markovian jump linear systems. International Journal of Systems Science, 2002, 33, 909-915.	3.7	72
67	Robust ?? filtering for uncertain Markovian jump linear systems. International Journal of Robust and Nonlinear Control, 2002, 12, 435-446.	2.1	46
68	Robust $H_{\infty}$ filter design for uncertain linear systems with multiple time-varying state delays. IEEE Transactions on Signal Processing, 2001, 49, 569-576.	3.2	214
69	Robust $H_{\infty}$ filtering for uncertain discrete-time state-delayed systems. IEEE Transactions on Signal Processing, 2001, 49, 1696-1703.	3.2	177
70	Finite-horizon robust Kalman filter design. IEEE Transactions on Signal Processing, 2001, 49, 2103-2112.	3.2	101
71	Biquadratic stability of uncertain linear systems. IEEE Transactions on Automatic Control, 2001, 46, 1303-1307.	3.6	91
72	Robust $H_{\infty}$ 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

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73	Robust $H^\infty$ 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
74	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
75	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
76	Robust $H^\infty$ Filter Design via Parameter-Dependent Lyapunov Functions *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 65-70.	0.4	7
77	9. A Linear Matrix Inequality Approach to the Design of Robust $H_2$ Filters. , 2000, , 175-185.		49
78	An LMI approach to stabilization of linear discrete-time periodic systems. International Journal of Control, 2000, 73, 696-703.	1.2	109
79	Author's reply to "Comments on bounded real criteria for time-delay systems". IEEE Transactions on Automatic Control, 2000, 45, 1774-1775.	3.6	0
80	Global robust disturbance attenuation and almost disturbance decoupling for uncertain cascaded nonlinear systems. Automatica, 1999, 35, 697-707.	3.0	28
81	Delay-dependent robust $H^\infty$ control of uncertain linear state-delayed systems. Automatica, 1999, 35, 1313-1321.	3.0	421
82	$H^\infty$ filtering for continuous-time linear systems with delay. IEEE Transactions on Automatic Control, 1999, 44, 1412-1417.	3.6	122
83	Robust $H_2$ filtering for uncertain systems with measurable inputs. IEEE Transactions on Signal Processing, 1999, 47, 2286-2292.	3.2	22
84	A New Approach to Linearly Perturbed Riccati Equations Arising in Stochastic Control. Applied Mathematics and Optimization, 1998, 37, 99-126.	0.8	83
85	Robust exponential stability of uncertain systems with time-varying delays. IEEE Transactions on Automatic Control, 1998, 43, 743-748.	3.6	135
86	Robust dissipative control for linear systems with dissipative uncertainty. International Journal of Control, 1998, 70, 169-191.	1.2	86
87	Bounded real criteria for linear time-delay systems. IEEE Transactions on Automatic Control, 1998, 43, 1016-1022.	3.6	71
88	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
89	Bounded real lemma for linear systems with finite discrete jumps. International Journal of Control, 1997, 66, 145-160.	1.2	34
90	Delay-dependent robust stability and stabilization of uncertain linear delay systems: a linear matrix inequality approach. IEEE Transactions on Automatic Control, 1997, 42, 1144-1148.	3.6	415

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91	Criteria for robust stability and stabilization of uncertain linear systems with state delay. Automatica, 1997, 33, 1657-1662.	3.0	446
92	H $\infty$ Filtering for Continuous-Time Linear Systems with Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4476-4481.	0.4	19
93	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
94	H $\infty$ 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
95	Robust filtering for a class of discrete-time uncertain nonlinear systems: AnH $\infty$ approach. International Journal of Robust and Nonlinear Control, 1996, 6, 297-312.	2.1	64
96	A necessary and sufficient condition for output feedback stabilizability. Automatica, 1995, 31, 1357-1359.	3.0	202
97	RobustH $\infty$ tracking: A game theory approach. International Journal of Robust and Nonlinear Control, 1995, 5, 223-238.	2.1	23
98	Robust $\hat{H}_\infty$ filtering for continuous time varying uncertain systems with deterministic input signals. IEEE Transactions on Signal Processing, 1995, 43, 709-719.	3.2	97
99	Robust minimum variance filtering. IEEE Transactions on Signal Processing, 1995, 43, 2474-2483.	3.2	154
100	Continuous-time tracking problems in an H/sub $\hat{\infty}$ / setting: a game theory approach. IEEE Transactions on Automatic Control, 1995, 40, 841-852.	3.6	102
101	A game theory approach to robust discrete-time H/sub $\hat{\infty}$ -estimation. IEEE Transactions on Signal Processing, 1994, 42, 1486-1495.	3.2	114
102	Robust Kalman filtering for uncertain discrete-time systems. IEEE Transactions on Automatic Control, 1994, 39, 1310-1314.	3.6	468
103	Robust control of discrete time uncertain dynamical systems. Automatica, 1993, 29, 1133-1137.	3.0	53
104	H $\infty$ filtering for a class of uncertain nonlinear systems. Systems and Control Letters, 1993, 20, 419-426.	1.3	94
105	H/sub infinity / state estimation for linear periodic systems. IEEE Transactions on Automatic Control, 1993, 38, 1704-1707.	3.6	33
106	H/sub infinity / analysis and synthesis of discrete-time systems with time-varying uncertainty. IEEE Transactions on Automatic Control, 1993, 38, 459-462.	3.6	122
107	On designing controllers for a class of uncertain sampled-data nonlinear systems. IEE Proceedings D: Control Theory and Applications, 1993, 140, 119.	0.4	42
108	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

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109	H/sub infinity / control and quadratic stabilization of systems with parameter uncertainty via output feedback. IEEE Transactions on Automatic Control, 1992, 37, 1253-1256.	3.6	508
110	Robust H/sub infinity / control for linear systems with norm-bounded time-varying uncertainty. IEEE Transactions on Automatic Control, 1992, 37, 1188-1191.	3.6	518
111	ROBUST CONTROL AND FILTERING OF DISCRETE-â€“TIME UNCERTAIN DYNAMICAL SYSTEMS. , 1992, , 160-163.		1
112	Maximal solution of a certain class of periodic Riccati differential equations. Linear Algebra and Its Applications, 1992, 169, 61-73.	0.4	10
113	Robust control of a class of uncertain nonlinear systems. Systems and Control Letters, 1992, 19, 139-149.	1.3	1,352
114	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
115	$\hat{z}$ estimation for uncertain systems. International Journal of Robust and Nonlinear Control, 1992, 2, 87-105.	2.1	195
116	On the Design of Robust Output Feedback Controllers for Uncertain Systems. , 1992, , .		1
117	Periodic strong solution for the optimal filtering problem of linear discrete-time periodic systems. IEEE Transactions on Automatic Control, 1991, 36, 333-338.	3.6	23
118	$\hat{z}$ filtering for linear periodic systems with parameter uncertainty. Systems and Control Letters, 1991, 17, 343-350.	1.3	70
119	$\hat{z}$ estimation for discrete-â€“time linear uncertain systems. International Journal of Robust and Nonlinear Control, 1991, 1, 111-123.	2.1	208
120	Qualitative aspects of the distribution of errors in least squares estimation. Automatica, 1990, 26, 97-101.	3.0	10
121	Bounds on the solution of the algebraic Riccati equation under perturbations in the coefficients. Systems and Control Letters, 1990, 15, 175-181.	1.3	8
122	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
123	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
124	Monotonicity and Maximal Solution of Generalized Algebraic Riccati Equations. , 1990, , .		1
125	Adaptive control of a coupled tank apparatus. International Journal of Adaptive Control and Signal Processing, 1989, 3, 319-331.	2.3	6
126	State feedback $\hat{z}$ optimal control problems for non-detectable systems. Systems and Control Letters, 1989, 13, 315-319.	1.3	4



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127	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
128	On stabilizing properties of solutions of the Riccati difference equation. IEEE Transactions on Automatic Control, 1989, 34, 1313-1316.	3.6	52
129	An Application of Adaptive Scheme to Fluid Level Control. , 1989, , .		2
130	An adaptive control algorithm for linear systems having unknown time delay. Automatica, 1988, 24, 327-341.	3.0	81
131	Riccati differential equation in optimal filtering of periodic non-stabilizable systems. International Journal of Control, 1987, 46, 1235-1250.	1.2	32
132	Riccati equations in optimal filtering of nonstabilizable systems having singular state transition matrices. IEEE Transactions on Automatic Control, 1986, 31, 831-838.	3.6	156
133	Convergence properties of an optimal filter design with correlated output noise. IEEE Transactions on Automatic Control, 1985, 30, 487-488.	3.6	0
134	Intersample variances in discrete minimum variance control. IEEE Transactions on Automatic Control, 1984, 29, 759-761.	3.6	23
135	Prior knowledge in model reference adaptive control of multiinput multioutput systems. IEEE Transactions on Automatic Control, 1984, 29, 761-764.	3.6	47