Keqin Gu

List of Publications by Year
in descending order

49 papers	2,592 citations	394421 19 h-index	501196 28 g-index
49 all docs	49 docs citations	49 times ranked	1179 citing authors

#	Article	IF	Citations
1	SOS for Systems with Multiple Delays: Part 2. H_{âˆž}-Optimal Estimation. , 2019, , .		2
2	Stability Analysis of a More General Class of Systems With Delay-Dependent Coefficients. IEEE Transactions on Automatic Control, 2019, 64, 1989-1998.	5.7	12
3	Some insights into the migration of double imaginary roots under small deviation of two parameters. Automatica, 2018, 88, 91-97.	5.0	7
4	Strong stability of a class of difference equations of continuous time and structured singular value problem. Automatica, 2018, 87, 32-39.	5.0	26
5	Stability analysis of systems with delay-dependant coefficients: A two-parameter approach. , 2017, , .		4
6	Further results on the strong stability of difference equations of continuous time * *This work is partially supported by National Science Foundation of China under Grant 61403199, the Natural Science Foundation of Jiangsu Province under Grant BK20140770, and the Fundamental Research Funds for the Central Universities of China under Grant 30916015105. IFAC-PapersOnLine, 2017, 50, 13318-13323.	0.9	0
7	Stability Analysis of Control Systems subject to Delay-Difference Feedback. IFAC-PapersOnLine, 2017, 50, 13330-13335.	0.9	8
8	An overview of stability analysis of systems with delay dependent coefficients. , 2017, , .		3
9	Towards more general stability analysis of systems with delay-dependent coefficients. , 2016, , .		7
10	An overview of stability crossing set for systems with scalar delay channels. , 2014, , .		1
11	Stability crossing set for systems with three scalar delay channels. International Journal of Dynamics and Control, 2014, 2, 164-197.	2.5	5
12	Estimating stable delay intervals with a discretized Lyapunovâ€“Krasovskii functional formulation. Automatica, 2014, 50, 1691-1697.	5.0	37
13	Estimating stable delay interval using discretized Lyapunov-Krasovskii functional method. , 2013, , .		0
14	Stability crossing set for systems with two scalar-delay channels. Automatica, 2013, 49, 2098-2106.	5.0	19
15	Complete Quadratic Lyapunov-Krasovskii Functional: Limitations, Computational Efficiency, and Convergence. , 2013, , 1-19.		3
16	A Review of Some Subtleties of Practical Relevance for Time-Delay Systems of Neutral Type. ISRN Applied Mathematics, 2012, 2012, 1-46.	0.5	48
17	Stability and Stabilization of Systems with Time Delay. IEEE Control Systems, 2011, 31, 38-65.	0.8	489
18	Reducing the Complexity of the Sum-of-Squares Test for Stability of Delayed Linear Systems. IEEE Transactions on Automatic Control, 2011, 56, 229-234.	5.7	17

#	Article	IF	Citations
19	Stability Crossing Set for Systems With Three Delays. IEEE Transactions on Automatic Control, 2011, 56, 11-26.	5.7	52
20	Small gain problem in coupled differentialâ€difference equations, timeâ€varying delays, and direct Lyapunov method. International Journal of Robust and Nonlinear Control, 2011, 21, 429-451.	3.7	109
21	Stability problem of systems with multiple delay channels. Automatica, 2010, 46, 743-751.	5.0	69
22	Discretized Lyapunovâ€“Krasovskii functional for coupled differentialâ€“difference equations with multiple delay channels. Automatica, 2010, 46, 902-909.	5.0	49
23	Reducing the computational cost of the sum-of-squares stability test for time-delayed systems. , 2010, , .		1
24	Lyapunovâ€“Krasovskii functional for uniform stability of coupled differential-functional equations. Automatica, 2009, 45, 798-804.	5.0	100
25	Lyapunov-Krasovskii Functional Approach for Coupled Differential-Difference Equations with Multiple Delays. , 2009, , 1-30.		2
26	Stability of differential-difference equations with norm-bounded uncertainty. , 2008, , .		0
27	On the Fragility of PI Controllers for Time-Delay SISO Systems. , 2008, , .		20
28	On the geometry of stability regions of Smith predictors subject to delay uncertainty. IMA Journal of Mathematical Control and Information, 2006, 24, 411-423.	1.7	14
29	On stability crossing curves for general systems with two delays. Journal of Mathematical Analysis and Applications, 2005, 311, 231-253.	1.0	293
30	On Computing the Maximum Time-Delay Bound for Stability of Linear Neutral Systems. IEEE Transactions on Automatic Control, 2004, 49, 2281-2286.	5.7	47
31	Refined discretized Lyapunov functional method for systems with multiple delays. International Journal of Robust and Nonlinear Control, 2003, 13, 1017-1033.	3.7	15
32	An improved stability criterion for systems with distributed delays. International Journal of Robust and Nonlinear Control, 2003, 13, 819-831.	3.7	64
33	An improved estimate of the robust stability bound of time-delay systems with norm-bounded uncertainty. IEEE Transactions on Automatic Control, 2003, 48, 1629-1634.	5.7	26
34	Survey on Recent Results in the Stability and Control of Time-Delay Systems*. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 158-165.	1.6	511
35	Further remarks on additional dynamics in various model transformations of linear delay systems. IEEE Transactions on Automatic Control, 2001, 46, 497-500.	5.7	134
36	Discretized Lyapunov functional for systems with distributed delay and piecewise constant coefficients. International Journal of Control, 2001, 74, 737-744.	1.9	87

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37	A further refinement of discretized Lyapunov functional method for the time-delay systems. , 2001, , .		1
38	Discretized Lyapunov functional for linear uncertain systems with time-varying delay. , 2000, , .		5
39	Additional dynamics in transformed time-delay systems. IEEE Transactions on Automatic Control, 2000, 45, 572-575.	5.7	185
40	Resonant-Separatrix Webs in Stochastic Layers of the Twin-Well Duffing Oscillator. Nonlinear Dynamics, 1999, 19, 37-48.	5.2	30
41	A generalized discretization scheme of Lyapunov functional in the stability problem of linear uncertain time-delay systems. International Journal of Robust and Nonlinear Control, 1999, 9, 1-14.	3.7	53
42	Discretization of Lyapunov functional for uncertain time-delay systems. , 1997, , .		9
43	The algorithms for studying the trade-offs between Hâˆž attenuation and uncertainty tolerance. International Journal of Control, 1995, 61, 823-836.	1.9	4
44	Absolute stability under uncertainties satisfying reciprocal relations. , 0, , .		0
45	Partial solution of LMI in stability problem of time-delay systems. , 0, , .		17
46	Additional dynamics in transformed time-delay systems. , 0, , .		4
47	A geometric description of the set of stabilizing PID controllers. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1
48	Refined discretized Lyapunov functional method for systems with multiple delays. , 0, , .		1
49	On robust stability of time-delay systems with block-diagonal uncertainty. , 0, , .		1