

Keqin Gu

List of Publications by Year in descending order

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1179
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Stability and Stabilization of Systems with Time Delay. IEEE Control Systems, 2011, 31, 38-65.	0.8	489
3	On stability crossing curves for general systems with two delays. Journal of Mathematical Analysis and Applications, 2005, 311, 231-253.	1.0	293
4	Additional dynamics in transformed time-delay systems. IEEE Transactions on Automatic Control, 2000, 45, 572-575.	5.7	185
5	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
6	Small gain problem in coupled differential-difference equations, time-varying delays, and direct Lyapunov method. International Journal of Robust and Nonlinear Control, 2011, 21, 429-451.	3.7	109
7	Lyapunov-Krasovskii functional for uniform stability of coupled differential-functional equations. Automatica, 2009, 45, 798-804.	5.0	100
8	Discretized Lyapunov functional for systems with distributed delay and piecewise constant coefficients. International Journal of Control, 2001, 74, 737-744.	1.9	87
9	Stability problem of systems with multiple delay channels. Automatica, 2010, 46, 743-751.	5.0	69
10	An improved stability criterion for systems with distributed delays. International Journal of Robust and Nonlinear Control, 2003, 13, 819-831.	3.7	64
11	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
12	Stability Crossing Set for Systems With Three Delays. IEEE Transactions on Automatic Control, 2011, 56, 11-26.	5.7	52
13	Discretized Lyapunov-Krasovskii functional for coupled differential-difference equations with multiple delay channels. Automatica, 2010, 46, 902-909.	5.0	49
14	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
15	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
16	Estimating stable delay intervals with a discretized Lyapunov-Krasovskii functional formulation. Automatica, 2014, 50, 1691-1697.	5.0	37
17	Resonant-Separatrix Webs in Stochastic Layers of the Twin-Well Duffing Oscillator. Nonlinear Dynamics, 1999, 19, 37-48.	5.2	30
18	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

#	ARTICLE	IF	CITATIONS
19	Strong stability of a class of difference equations of continuous time and structured singular value problem. <i>Automatica</i> , 2018, 87, 32-39.	5.0	26
20	On the Fragility of PI Controllers for Time-Delay SISO Systems. , 2008, , .		20
21	Stability crossing set for systems with two scalar-delay channels. <i>Automatica</i> , 2013, 49, 2098-2106.	5.0	19
22	Partial solution of LMI in stability problem of time-delay systems. , 0, , .		17
23	Reducing the Complexity of the Sum-of-Squares Test for Stability of Delayed Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 229-234.	5.7	17
24	Refined discretized Lyapunov functional method for systems with multiple delays. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 1017-1033.	3.7	15
25	On the geometry of stability regions of Smith predictors subject to delay uncertainty. <i>IMA Journal of Mathematical Control and Information</i> , 2006, 24, 411-423.	1.7	14
26	Stability Analysis of a More General Class of Systems With Delay-Dependent Coefficients. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 1989-1998.	5.7	12
27	Discretization of Lyapunov functional for uncertain time-delay systems. , 1997, , .		9
28	Stability Analysis of Control Systems subject to Delay-Difference Feedback. <i>IFAC-PapersOnLine</i> , 2017, 50, 13330-13335.	0.9	8
29	Towards more general stability analysis of systems with delay-dependent coefficients. , 2016, , .		7
30	Some insights into the migration of double imaginary roots under small deviation of two parameters. <i>Automatica</i> , 2018, 88, 91-97.	5.0	7
31	Discretized Lyapunov functional for linear uncertain systems with time-varying delay. , 2000, , .		5
32	Stability crossing set for systems with three scalar delay channels. <i>International Journal of Dynamics and Control</i> , 2014, 2, 164-197.	2.5	5
33	The algorithms for studying the trade-offs between H_{∞} attenuation and uncertainty tolerance. <i>International Journal of Control</i> , 1995, 61, 823-836.	1.9	4
34	Additional dynamics in transformed time-delay systems. , 0, , .		4
35	Stability analysis of systems with delay-dependant coefficients: A two-parameter approach. , 2017, , .		4
36	Complete Quadratic Lyapunov-Krasovskii Functional: Limitations, Computational Efficiency, and Convergence. , 2013, , 1-19.		3

#	ARTICLE	IF	CITATIONS
37	An overview of stability analysis of systems with delay dependent coefficients. , 2017, , .		3
38	Lyapunov-Krasovskii Functional Approach for Coupled Differential-Difference Equations with Multiple Delays. , 2009, , 1-30.		2
39	SOS for Systems with Multiple Delays: Part 2. H^{∞} -Optimal Estimation. , 2019, , .		2
40	A further refinement of discretized Lyapunov functional method for the time-delay systems. , 2001, , .		1
41	Reducing the computational cost of the sum-of-squares stability test for time-delayed systems. , 2010, , .		1
42	An overview of stability crossing set for systems with scalar delay channels. , 2014, , .		1
43	A geometric description of the set of stabilizing PID controllers. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1
44	Refined discretized Lyapunov functional method for systems with multiple delays. , 0, , .		1
45	On robust stability of time-delay systems with block-diagonal uncertainty. , 0, , .		1
46	Absolute stability under uncertainties satisfying reciprocal relations. , 0, , .		0
47	Stability of differential-difference equations with norm-bounded uncertainty. , 2008, , .		0
48	Estimating stable delay interval using discretized Lyapunov-Krasovskii functional method. , 2013, , .		0
49	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