

Vladimir Kharitonov

List of Publications by Year in descending order

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67
papers

2,578
citations

236925

25
h-index

206112

48
g-index

69
all docs

69
docs citations

69
times ranked

757
citing authors

#	ARTICLE	IF	CITATIONS
1	Lyapunov's Krasovskii approach to the robust stability analysis of time-delay systems. Automatica, 2003, 39, 15-20.	5.0	344
2	Exponential estimates for retarded time-delay systems: an LMI approach. IEEE Transactions on Automatic Control, 2005, 50, 268-273.	5.7	164
3	Time-Delay Systems. , 2013, , .		157
4	Static output feedback stabilization: necessary conditions for multiple delay controllers. IEEE Transactions on Automatic Control, 2005, 50, 82-86.	5.7	151
5	Robust stability analysis of time delay systems: A survey. Annual Reviews in Control, 1999, 23, 185-196.	7.9	150
6	Robust stability of time-delay systems. IEEE Transactions on Automatic Control, 1994, 39, 2388-2397.	5.7	140
7	On the stability of linear systems with uncertain delay. IEEE Transactions on Automatic Control, 2003, 48, 127-132.	5.7	139
8	Robust stability analysis of time delay systems: a survey. Annual Reviews in Control, 1999, 23, 185-196.	7.9	126
9	On delay-dependent stability conditions. Systems and Control Letters, 2000, 40, 71-76.	2.3	115
10	Exponential estimates for time delay systems. Systems and Control Letters, 2004, 53, 395-405.	2.3	99
11	An extension of the prediction scheme to the case of systems with both input and state delay. Automatica, 2014, 50, 211-217.	5.0	73
12	Exponential estimates for neutral time-delay systems: an LMI approach. IEEE Transactions on Automatic Control, 2005, 50, 666-670.	5.7	70
13	Lyapunov matrices for time-delay systems. Systems and Control Letters, 2006, 55, 697-706.	2.3	66
14	Lyapunov functionals and Lyapunov matrices for neutral type time delay systems: a single delay case. International Journal of Control, 2005, 78, 783-800.	1.9	63
15	Stability conditions for integral delay systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1-15.	3.7	58
16	Lyapunov matrices for a class of time delay systems. Systems and Control Letters, 2006, 55, 610-617.	2.3	56
17	On delay-dependent stability conditions for time-varying systems. Systems and Control Letters, 2002, 46, 173-180.	2.3	54
18	Additional dynamics for general class of time-delay systems. IEEE Transactions on Automatic Control, 2003, 48, 1060-1064.	5.7	38

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19	Critical frequencies and parameters for linear delay systems: A Lyapunov matrix approach. <i>Systems and Control Letters</i> , 2013, 62, 781-790.	2.3	37
20	Robust Stability of Multivariate Polynomials. Part 1: Small Coefficient Perturbations. <i>Multidimensional Systems and Signal Processing</i> , 1999, 10, 7-20.	2.6	34
21	Predictor-based controls: The implementation problem. <i>Differential Equations</i> , 2015, 51, 1675-1682.	0.7	33
22	Lyapunov-Krasovskii functionals for scalar neutral type time delay equations. <i>Systems and Control Letters</i> , 2009, 58, 17-25.	2.3	31
23	Linear quadratic suboptimal control for time delays systems. <i>International Journal of Control</i> , 2009, 82, 147-154.	1.9	29
24	Prediction-based control for systems with state and several input delays. <i>Automatica</i> , 2017, 79, 11-16.	5.0	28
25	Lyapunov matrices for a class of neutral type time delay systems. <i>International Journal of Control</i> , 2008, 81, 883-893.	1.9	26
26	Predictor based stabilization of neutral type systems with input delay. <i>Automatica</i> , 2015, 52, 125-134.	5.0	26
27	Lyapunov-Krasovskii functionals for scalar time delay equations. <i>Systems and Control Letters</i> , 2004, 51, 133-149.	2.3	22
28	Exponential estimates for neutral time delay systems with multiple delays. <i>International Journal of Robust and Nonlinear Control</i> , 2006, 16, 71-84.	3.7	21
29	Stability of polynomials with conic uncertainty. <i>Mathematics of Control, Signals, and Systems</i> , 1995, 8, 97-117.	2.3	20
30	On the uniqueness of Lyapunov matrices for a time-delay system. <i>Systems and Control Letters</i> , 2012, 61, 397-402.	2.3	19
31	Lyapunov-Krasovskii functionals for additional dynamics. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 793-804.	3.7	17
32	Robust stability of nested polynomial families. <i>Automatica</i> , 1996, 32, 365-367.	5.0	15
33	Robust stability of dynamic predictor based control laws for input and state delay systems. <i>Systems and Control Letters</i> , 2016, 96, 95-102.	2.3	15
34	Robust stability of quasi-polynomials and the finite inclusions theorem. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 1826-1831.	5.7	14
35	Lyapunov functionals and matrices. <i>Annual Reviews in Control</i> , 2010, 34, 13-20.	7.9	14
36	Dynamic predictor for systems with state and input delay: A time-domain robust stability analysis. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 2204-2218.	3.7	14

#	ARTICLE	IF	CITATIONS
37	On the stability of a weighted diamond of real polynomials. <i>Systems and Control Letters</i> , 1994, 22, 5-7.	2.3	13
38	Lyapunov matrices: Existence and uniqueness issues. <i>Automatica</i> , 2010, 46, 1725-1729.	5.0	11
39	Lyapunov Matrices for Neutral Type Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 61-71.	1.0	11
40	Robust Stability of Multivariate Polynomials, Part 3: Frequency Domain Approach. <i>Multidimensional Systems and Signal Processing</i> , 2000, 11, 213-231.	2.6	9
41	On stability of a weighted diamond of real quasi-polynomials. <i>IEEE Transactions on Automatic Control</i> , 1997, 42, 831-835.	5.7	7
42	Frequency Stability Analysis of Linear Systems with General Distributed Delays. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 25-36.	1.0	6
43	On the stability of quasipolynomials with weighted diamond coefficients. <i>Multidimensional Systems and Signal Processing</i> , 1994, 5, 397-418.	2.6	5
44	Computation of Imaginary Axis Eigenvalues and Critical Parameters for Neutral Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2012, , 61-72.	1.0	5
45	Stability and robust stability of integral delay systems. , 2008, , .		4
46	Stability of Convex Hull of Quasipolynomials. , 1992, , 63-69.		4
47	Stability of Multivariate Polynomials, Part 4: Conic Sets. <i>Multidimensional Systems and Signal Processing</i> , 2003, 14, 343-363.	2.6	3
48	LYAPUNOV MATRICES FOR A CLASS OF NEUTRAL TYPE TIME DELAY SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006, 39, 24-29.	0.4	3
49	Stability of a multi-diamond type family of quasipolynomials. , 2008, , .		3
50	Delay Dependent Stability Conditions for Linear Time Varying Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000, 33, 469-472.	0.4	2
51	Matrix convex directions for time delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 1259-1270.	3.7	2
52	Lyapunov-Krasovskii functionals for integral delay equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 23-28.	0.4	2
53	Reduced stability testing set for a diamond-type family of quasipolynomials. <i>Multidimensional Systems and Signal Processing</i> , 2009, 20, 25-37.	2.6	2
54	Lyapunov matrices: Existence and uniqueness issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 267-271.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Approximate Lyapunov matrices for time-delay systems. IFAC-PapersOnLine, 2018, 51, 142-146.	0.9	2
56	On robust stability of multivariate interval plants. International Journal of Robust and Nonlinear Control, 2003, 13, 939-950.	3.7	1
57	EXPONENTIAL ESTIMATES FOR SCALAR NEUTRAL TYPE TIME DELAY EQUATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 18-23.	0.4	1
58	Robust stability analysis of a class of neutral type time delay equations. , 2008, , .		1
59	Systems with Distributed Delay. , 2013, , 133-170.		1
60	On Stability and Robust Stability of Multivariate Polynomials I. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 479-484.	0.4	0
61	Powers of SPR functions and preservation properties. Journal of the Franklin Institute, 2002, 339, 521-528.	3.4	0
62	The Hadamard Product of Two Stable Multivariate Polynomials is not Necessarily Stable. Multidimensional Systems and Signal Processing, 2004, 15, 57-63.	2.6	0
63	General Theory. , 2013, , 3-26.		0
64	Single Delay Case. , 2013, , 27-74.		0
65	Multiple Delay Case. , 2013, , 75-131.		0
66	Distributed Delay Case. , 2013, , 255-304.		0
67	Lyapunov Functionals and Matrices for Neutral Type Time Delay Systems. Lecture Notes in Control and Information Sciences, 2012, , 3-17.	1.0	0