

Vladimir Kharitonov

List of Publications by Year in descending order

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67
papers

2,578
citations

236925

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docs citations

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times ranked

757
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic predictor for systems with state and input delay: A time-domain robust stability analysis. International Journal of Robust and Nonlinear Control, 2020, 30, 2204-2218.	3.7	14
2	Approximate Lyapunov matrices for time-delay systems. IFAC-PapersOnLine, 2018, 51, 142-146.	0.9	2
3	Prediction-based control for systems with state and several input delays. Automatica, 2017, 79, 11-16.	5.0	28
4	Robust stability of dynamic predictor based control laws for input and state delay systems. Systems and Control Letters, 2016, 96, 95-102.	2.3	15
5	Predictor-based controls: The implementation problem. Differential Equations, 2015, 51, 1675-1682.	0.7	33
6	Predictor based stabilization of neutral type systems with input delay. Automatica, 2015, 52, 125-134.	5.0	26
7	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
8	Time-Delay Systems. , 2013, , .		157
9	Critical frequencies and parameters for linear delay systems: A Lyapunov matrix approach. Systems and Control Letters, 2013, 62, 781-790.	2.3	37
10	General Theory. , 2013, , 3-26.		0
11	Single Delay Case. , 2013, , 27-74.		0
12	Multiple Delay Case. , 2013, , 75-131.		0
13	Systems with Distributed Delay. , 2013, , 133-170.		1
14	Distributed Delay Case. , 2013, , 255-304.		0
15	Computation of Imaginary Axis Eigenvalues and Critical Parameters for Neutral Time Delay Systems. Lecture Notes in Control and Information Sciences, 2012, , 61-72.	1.0	5
16	On the uniqueness of Lyapunov matrices for a time-delay system. Systems and Control Letters, 2012, 61, 397-402.	2.3	19
17	Lyapunov Functionals and Matrices for Neutral Type Time Delay Systems. Lecture Notes in Control and Information Sciences, 2012, , 3-17.	1.0	0
18	Lyapunov functionals and matrices. Annual Reviews in Control, 2010, 34, 13-20.	7.9	14

#	ARTICLE	IF	CITATIONS
19	Lyapunov matrices: Existence and uniqueness issues. Automatica, 2010, 46, 1725-1729.	5.0	11
20	Stability conditions for integral delay systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1-15.	3.7	58
21	Frequency Stability Analysis of Linear Systems with General Distributed Delays. Lecture Notes in Control and Information Sciences, 2009, , 25-36.	1.0	6
22	Reduced stability testing set for a diamond-type family of quasipolynomials. Multidimensional Systems and Signal Processing, 2009, 20, 25-37.	2.6	2
23	Lyapunovâ€“Krasovskii functionals for scalar neutral type time delay equations. Systems and Control Letters, 2009, 58, 17-25.	2.3	31
24	Linear quadratic suboptimal control for time delays systems. International Journal of Control, 2009, 82, 147-154.	1.9	29
25	Lyapunov matrices: Existence and uniqueness issues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 267-271.	0.4	2
26	Lyapunov Matrices for Neutral Type Time Delay Systems. Lecture Notes in Control and Information Sciences, 2009, , 61-71.	1.0	11
27	Stability and robust stability of integral delay systems. , 2008, , .		4
28	Robust stability analysis of a class of neutral type time delay equations. , 2008, , .		1
29	Stability of a multi-diamond type family of quasipolynomials. , 2008, , .		3
30	Lyapunov matrices for a class of neutral type time delay systems. International Journal of Control, 2008, 81, 883-893.	1.9	26
31	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
32	LYAPUNOV MATRICES FOR A CLASS OF NEUTRAL TYPE TIME DELAY SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 24-29.	0.4	3
33	Exponential estimates for neutral time delay systems with multiple delays. International Journal of Robust and Nonlinear Control, 2006, 16, 71-84.	3.7	21
34	Lyapunov matrices for time-delay systems. Systems and Control Letters, 2006, 55, 697-706.	2.3	66
35	Lyapunov matrices for a class of time delay systems. Systems and Control Letters, 2006, 55, 610-617.	2.3	56
36	Static output feedback stabilization: necessary conditions for multiple delay controllers. IEEE Transactions on Automatic Control, 2005, 50, 82-86.	5.7	151

#	ARTICLE	IF	CITATIONS
37	Exponential estimates for retarded time-delay systems: an LMI approach. IEEE Transactions on Automatic Control, 2005, 50, 268-273.	5.7	164
38	Robust stability of quasi-polynomials and the finite inclusions theorem. IEEE Transactions on Automatic Control, 2005, 50, 1826-1831.	5.7	14
39	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
40	Exponential estimates for neutral time-delay systems: an LMI approach. IEEE Transactions on Automatic Control, 2005, 50, 666-670.	5.7	70
41	The Hadamard Product of Two Stable Multivariate Polynomials is not Necessarily Stable. Multidimensional Systems and Signal Processing, 2004, 15, 57-63.	2.6	0
42	Lyapunov-Krasovskii functionals for scalar time delay equations. Systems and Control Letters, 2004, 51, 133-149.	2.3	22
43	Exponential estimates for time delay systems. Systems and Control Letters, 2004, 53, 395-405.	2.3	99
44	Stability of Multivariate Polynomials, Part 4: Conic Sets. Multidimensional Systems and Signal Processing, 2003, 14, 343-363.	2.6	3
45	Lyapunov-Krasovskii approach to the robust stability analysis of time-delay systems. Automatica, 2003, 39, 15-20.	5.0	344
46	On robust stability of multivariate interval plants. International Journal of Robust and Nonlinear Control, 2003, 13, 939-950.	3.7	1
47	Matrix convex directions for time delay systems. International Journal of Robust and Nonlinear Control, 2003, 13, 1259-1270.	3.7	2
48	Lyapunov-Krasovskii functionals for additional dynamics. International Journal of Robust and Nonlinear Control, 2003, 13, 793-804.	3.7	17
49	On the stability of linear systems with uncertain delay. IEEE Transactions on Automatic Control, 2003, 48, 127-132.	5.7	139
50	Additional dynamics for general class of time-delay systems. IEEE Transactions on Automatic Control, 2003, 48, 1060-1064.	5.7	38
51	Lyapunov-Krasovskii functionals for integral delay equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 23-28.	0.4	2
52	On delay-dependent stability conditions for time-varying systems. Systems and Control Letters, 2002, 46, 173-180.	2.3	54
53	Powers of SPR functions and preservation properties. Journal of the Franklin Institute, 2002, 339, 521-528.	3.4	0
54	Delay Dependent Stability Conditions for Linear Time Varying Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 469-472.	0.4	2

#	ARTICLE	IF	CITATIONS
55	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
56	On delay-dependent stability conditions. Systems and Control Letters, 2000, 40, 71-76.	2.3	115
57	Robust Stability of Multivariate Polynomials, Part 3: Frequency Domain Approach. Multidimensional Systems and Signal Processing, 2000, 11, 213-231.	2.6	9
58	Robust stability analysis of time delay systems: A survey. Annual Reviews in Control, 1999, 23, 185-196.	7.9	150
59	Robust Stability of Multivariate Polynomials. Part 1: Small Coefficient Perturbations. Multidimensional Systems and Signal Processing, 1999, 10, 7-20.	2.6	34
60	Robust stability analysis of time delay systems: a survey. Annual Reviews in Control, 1999, 23, 185-196.	7.9	126
61	On stability of a weighted diamond of real quasi-polynomials. IEEE Transactions on Automatic Control, 1997, 42, 831-835.	5.7	7
62	Robust stability of nested polynomial families. Automatica, 1996, 32, 365-367.	5.0	15
63	Stability of polynomials with conic uncertainty. Mathematics of Control, Signals, and Systems, 1995, 8, 97-117.	2.3	20
64	On the stability of quasipolynomials with weighted diamond coefficients. Multidimensional Systems and Signal Processing, 1994, 5, 397-418.	2.6	5
65	On the stability of a weighted diamond of real polynomials. Systems and Control Letters, 1994, 22, 5-7.	2.3	13
66	Robust stability of time-delay systems. IEEE Transactions on Automatic Control, 1994, 39, 2388-2397.	5.7	140
67	Stability of Convex Hull of Quasipolynomials. , 1992, , 63-69.		4