

Vladimir Kharitonov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	1,891 citations	22 h-index	43 g-index
69 ext. papers	2,314 ext. citations	3.3 avg, IF	5.39 L-index

#	Paper	IF	Citations
67	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	3.6	3
66	Approximate Lyapunov matrices for time-delay systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 142-146	0.7	2
65	Prediction-based control for systems with state and several input delays. <i>Automatica</i> , 2017 , 79, 11-16	5.7	20
64	Robust stability of dynamic predictor based control laws for input and state delay systems. <i>Systems and Control Letters</i> , 2016 , 96, 95-102	2.4	8
63	Predictor based stabilization of neutral type systems with input delay. <i>Automatica</i> , 2015 , 52, 125-134	5.7	21
62	Predictor-based controls: The implementation problem. <i>Differential Equations</i> , 2015 , 51, 1675-1682	0.7	21
61	An extension of the prediction scheme to the case of systems with both input and state delay. <i>Automatica</i> , 2014 , 50, 211-217	5.7	54
60	Time-Delay Systems 2013 ,		98
59	Critical frequencies and parameters for linear delay systems: A Lyapunov matrix approach. <i>Systems and Control Letters</i> , 2013 , 62, 781-790	2.4	31
58	General Theory 2013 , 3-26		
57	Single Delay Case 2013 , 27-74		
56	Multiple Delay Case 2013 , 75-131		
55	Systems with Distributed Delay 2013 , 133-170		1
54	General Theory 2013 , 173-200		
53	Distributed Delay Case 2013 , 255-304		
52	On the uniqueness of Lyapunov matrices for a time-delay system. <i>Systems and Control Letters</i> , 2012 , 61, 397-402	2.4	17
51	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	0.5	3

50	Lyapunov Functionals and Matrices for Neutral Type Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 3-17	0.5	
49	Lyapunov functionals and matrices. <i>Annual Reviews in Control</i> , 2010 , 34, 13-20	10.3	13
48	Lyapunov matrices: Existence and uniqueness issues. <i>Automatica</i> , 2010 , 46, 1725-1729	5.7	9
47	Stability conditions for integral delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 1-15	3.6	42
46	Frequency Stability Analysis of Linear Systems with General Distributed Delays. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 25-36	0.5	6
45	Reduced stability testing set for a diamond-type family of quasipolynomials. <i>Multidimensional Systems and Signal Processing</i> , 2009 , 20, 25-37	1.8	0
44	Lyapunov-Krasovskii functionals for scalar neutral type time delay equations. <i>Systems and Control Letters</i> , 2009 , 58, 17-25	2.4	25
43	Linear quadratic suboptimal control for time delays systems. <i>International Journal of Control</i> , 2009 , 82, 147-154	1.5	21
42	Lyapunov matrices: Existence and uniqueness issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 267-271		2
41	Lyapunov Matrices for Neutral Type Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 61-71	0.5	5
40	Stability and robust stability of integral delay systems 2008 ,		3
39	Robust stability analysis of a class of neutral type time delay equations 2008 ,		1
38	Lyapunov matrices for a class of neutral type time delay systems. <i>International Journal of Control</i> , 2008 , 81, 883-893	1.5	22
37	EXPONENTIAL ESTIMATES FOR SCALAR NEUTRAL TYPE TIME DELAY EQUATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 18-23		
36	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		2
35	Exponential estimates for neutral time delay systems with multiple delays. <i>International Journal of Robust and Nonlinear Control</i> , 2006 , 16, 71-84	3.6	18
34	Lyapunov matrices for time-delay systems. <i>Systems and Control Letters</i> , 2006 , 55, 697-706	2.4	50
33	Lyapunov matrices for a class of time delay systems. <i>Systems and Control Letters</i> , 2006 , 55, 610-617	2.4	45

32	Exponential estimates for retarded time-delay systems: an LMI approach. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 268-273	5.9	133
31	Robust stability of quasi-polynomials and the finite inclusions theorem. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1826-1831	5.9	10
30	Lyapunov functionals and Lyapunov matrices for neutral type time delay systems: a single delay case. <i>International Journal of Control</i> , 2005 , 78, 783-800	1.5	56
29	Exponential estimates for neutral time-delay systems: an LMI approach. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 666-670	5.9	54
28	Static output feedback stabilization: necessary conditions for multiple delay controllers. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 82-86	5.9	103
27	The Hadamard Product of Two Stable Multivariate Polynomials is not Necessarily Stable. <i>Multidimensional Systems and Signal Processing</i> , 2004 , 15, 57-63	1.8	
26	Lyapunov-Krasovskii functionals for scalar time delay equations. <i>Systems and Control Letters</i> , 2004 , 51, 133-149	2.4	18
25	Exponential estimates for time delay systems. <i>Systems and Control Letters</i> , 2004 , 53, 395-405	2.4	82
24	Lyapunov-Krasovskii functionals for integral delay equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 23-28		0
23	Stability of Multivariate Polynomials, Part 4: Conic Sets. <i>Multidimensional Systems and Signal Processing</i> , 2003 , 14, 343-363	1.8	1
22	Lyapunov-Krasovskii approach to the robust stability analysis of time-delay systems. <i>Automatica</i> , 2003 , 39, 15-20	5.7	272
21	On robust stability of multivariate interval plants. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 939-950	3.6	1
20	Matrix convex directions for time delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 1259-1270	3.6	1
19	Lyapunov-Krasovskii functionals for additional dynamics. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 793-804	3.6	11
18	On the stability of linear systems with uncertain delay. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 127-132	5.9	108
17	Additional dynamics for general class of time-delay systems. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1060-1064	5.9	30
16	On delay-dependent stability conditions for time-varying systems. <i>Systems and Control Letters</i> , 2002 , 46, 173-180	2.4	36
15	Powers of SPR functions and preservation properties. <i>Journal of the Franklin Institute</i> , 2002 , 339, 521-528		

14	Delay Dependent Stability Conditions for Linear Time Varying Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 469-472		1
13	On Stability and Robust Stability of Multivariate Polynomials. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 479-484		
12	On delay-dependent stability conditions. <i>Systems and Control Letters</i> , 2000 , 40, 71-76	2.4	93
11	Robust Stability of Multivariate Polynomials, Part 3: Frequency Domain Approach. <i>Multidimensional Systems and Signal Processing</i> , 2000 , 11, 213-231	1.8	6
10	Robust stability analysis of time delay systems: A survey. <i>Annual Reviews in Control</i> , 1999 , 23, 185-196	10.3	77
9	Robust Stability of Multivariate Polynomials. Part 1: Small Coefficient Perturbations. <i>Multidimensional Systems and Signal Processing</i> , 1999 , 10, 7-20	1.8	23
8	Robust stability analysis of time delay systems: a survey. <i>Annual Reviews in Control</i> , 1999 , 23, 185-196	10.3	105
7	On stability of a weighted diamond of real quasi-polynomials. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 831-835	5.9	3
6	Robust stability of nested polynomial families. <i>Automatica</i> , 1996 , 32, 365-367	5.7	8
5	Stability of polynomials with conic uncertainty. <i>Mathematics of Control, Signals, and Systems</i> , 1995 , 8, 97-117	1.3	12
4	On the stability of quasipolynomials with weighted diamond coefficients. <i>Multidimensional Systems and Signal Processing</i> , 1994 , 5, 397-418	1.8	2
3	On the stability of a weighted diamond of real polynomials. <i>Systems and Control Letters</i> , 1994 , 22, 5-7	2.4	8
2	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 2388-2397	5.9	90
1	Stability of Convex Hull of Quasipolynomials 1992 , 63-69		3