

# Vladimir Kharitonov

## List of Publications by Citations

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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	Lyapunov-Krasovskii approach to the robust stability analysis of time-delay systems. <i>Automatica</i> , <b>2003</b> , 39, 15-20	5.7	272
66	Exponential estimates for retarded time-delay systems: an LMI approach. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 268-273	5.9	133
65	On the stability of linear systems with uncertain delay. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 127-132	5.9	108
64	Robust stability analysis of time delay systems: a survey. <i>Annual Reviews in Control</i> , <b>1999</b> , 23, 185-196	10.3	105
63	Static output feedback stabilization: necessary conditions for multiple delay controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 82-86	5.9	103
62	Time-Delay Systems <b>2013</b> ,		98
61	On delay-dependent stability conditions. <i>Systems and Control Letters</i> , <b>2000</b> , 40, 71-76	2.4	93
60	. <i>IEEE Transactions on Automatic Control</i> , <b>1994</b> , 39, 2388-2397	5.9	90
59	Exponential estimates for time delay systems. <i>Systems and Control Letters</i> , <b>2004</b> , 53, 395-405	2.4	82
58	Robust stability analysis of time delay systems: A survey. <i>Annual Reviews in Control</i> , <b>1999</b> , 23, 185-196	10.3	77
57	Lyapunov functionals and Lyapunov matrices for neutral type time delay systems: a single delay case. <i>International Journal of Control</i> , <b>2005</b> , 78, 783-800	1.5	56
56	An extension of the prediction scheme to the case of systems with both input and state delay. <i>Automatica</i> , <b>2014</b> , 50, 211-217	5.7	54
55	Exponential estimates for neutral time-delay systems: an LMI approach. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 666-670	5.9	54
54	Lyapunov matrices for time-delay systems. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 697-706	2.4	50
53	Lyapunov matrices for a class of time delay systems. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 610-617	2.4	45
52	Stability conditions for integral delay systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2010</b> , 20, 1-15	3.6	42
51	On delay-dependent stability conditions for time-varying systems. <i>Systems and Control Letters</i> , <b>2002</b> , 46, 173-180	2.4	36

50	Critical frequencies and parameters for linear delay systems: A Lyapunov matrix approach. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 781-790	2.4	31
49	Additional dynamics for general class of time-delay systems. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1060-1064	5.9	30
48	Lyapunov-Krasovskii functionals for scalar neutral type time delay equations. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 17-25	2.4	25
47	Robust Stability of Multivariate Polynomials. Part 1: Small Coefficient Perturbations. <i>Multidimensional Systems and Signal Processing</i> , <b>1999</b> , 10, 7-20	1.8	23
46	Lyapunov matrices for a class of neutral type time delay systems. <i>International Journal of Control</i> , <b>2008</b> , 81, 883-893	1.5	22
45	Predictor based stabilization of neutral type systems with input delay. <i>Automatica</i> , <b>2015</b> , 52, 125-134	5.7	21
44	Predictor-based controls: The implementation problem. <i>Differential Equations</i> , <b>2015</b> , 51, 1675-1682	0.7	21
43	Linear quadratic suboptimal control for time delays systems. <i>International Journal of Control</i> , <b>2009</b> , 82, 147-154	1.5	21
42	Prediction-based control for systems with state and several input delays. <i>Automatica</i> , <b>2017</b> , 79, 11-16	5.7	20
41	Exponential estimates for neutral time delay systems with multiple delays. <i>International Journal of Robust and Nonlinear Control</i> , <b>2006</b> , 16, 71-84	3.6	18
40	Lyapunov-Krasovskii functionals for scalar time delay equations. <i>Systems and Control Letters</i> , <b>2004</b> , 51, 133-149	2.4	18
39	On the uniqueness of Lyapunov matrices for a time-delay system. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 397-402	2.4	17
38	Lyapunov functionals and matrices. <i>Annual Reviews in Control</i> , <b>2010</b> , 34, 13-20	10.3	13
37	Stability of polynomials with conic uncertainty. <i>Mathematics of Control, Signals, and Systems</i> , <b>1995</b> , 8, 97-117	1.3	12
36	Lyapunov-Krasovskii functionals for additional dynamics. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 793-804	3.6	11
35	Robust stability of quasi-polynomials and the finite inclusions theorem. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1826-1831	5.9	10
34	Lyapunov matrices: Existence and uniqueness issues. <i>Automatica</i> , <b>2010</b> , 46, 1725-1729	5.7	9
33	Robust stability of dynamic predictor based control laws for input and state delay systems. <i>Systems and Control Letters</i> , <b>2016</b> , 96, 95-102	2.4	8

32	Robust stability of nested polynomial families. <i>Automatica</i> , <b>1996</b> , 32, 365-367	5.7	8
31	On the stability of a weighted diamond of real polynomials. <i>Systems and Control Letters</i> , <b>1994</b> , 22, 5-7	2.4	8
30	Frequency Stability Analysis of Linear Systems with General Distributed Delays. <i>Lecture Notes in Control and Information Sciences</i> , <b>2009</b> , 25-36	0.5	6
29	Robust Stability of Multivariate Polynomials, Part 3: Frequency Domain Approach. <i>Multidimensional Systems and Signal Processing</i> , <b>2000</b> , 11, 213-231	1.8	6
28	Lyapunov Matrices for Neutral Type Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2009</b> , 61-71	0.5	5
27	Dynamic predictor for systems with state and input delay: A time-domain robust stability analysis. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 2204-2218	3.6	3
26	Computation of Imaginary Axis Eigenvalues and Critical Parameters for Neutral Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2012</b> , 61-72	0.5	3
25	On stability of a weighted diamond of real quasi-polynomials. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 831-835	5.9	3
24	Stability and robust stability of integral delay systems <b>2008</b> ,		3
23	Stability of Convex Hull of Quasipolynomials <b>1992</b> , 63-69		3
22	Lyapunov matrices: Existence and uniqueness issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 267-271		2
21	LYAPUNOV MATRICES FOR A CLASS OF NEUTRAL TYPE TIME DELAY SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 24-29		2
20	On the stability of quasipolynomials with weighted diamond coefficients. <i>Multidimensional Systems and Signal Processing</i> , <b>1994</b> , 5, 397-418	1.8	2
19	Approximate Lyapunov matrices for time-delay systems. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 142-146	0.7	2
18	Systems with Distributed Delay <b>2013</b> , 133-170		1
17	Robust stability analysis of a class of neutral type time delay equations <b>2008</b> ,		1
16	Stability of Multivariate Polynomials, Part 4: Conic Sets. <i>Multidimensional Systems and Signal Processing</i> , <b>2003</b> , 14, 343-363	1.8	1
15	On robust stability of multivariate interval plants. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 939-950	3.6	1

14	Matrix convex directions for time delay systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 1259-1270	3.6	1
13	Delay Dependent Stability Conditions for Linear Time Varying Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 469-472		1
12	Reduced stability testing set for a diamond-type family of quasipolynomials. <i>Multidimensional Systems and Signal Processing</i> , <b>2009</b> , 20, 25-37	1.8	0
11	Lyapunov-Krasovskii functionals for integral delay equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 23-28		0
10	General Theory <b>2013</b> , 3-26		
9	Single Delay Case <b>2013</b> , 27-74		
8	Multiple Delay Case <b>2013</b> , 75-131		
7	General Theory <b>2013</b> , 173-200		
6	Distributed Delay Case <b>2013</b> , 255-304		
5	EXPONENTIAL ESTIMATES FOR SCALAR NEUTRAL TYPE TIME DELAY EQUATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 18-23		
4	The Hadamard Product of Two Stable Multivariate Polynomials is not Necessarily Stable. <i>Multidimensional Systems and Signal Processing</i> , <b>2004</b> , 15, 57-63	1.8	
3	Powers of SPR functions and preservation properties. <i>Journal of the Franklin Institute</i> , <b>2002</b> , 339, 521-528		
2	On Stability and Robust Stability of Multivariate Polynomials. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 479-484		
1	Lyapunov Functionals and Matrices for Neutral Type Time Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2012</b> , 3-17	0.5	