Jovan D Stefanovski

List of Publications by Citations

50 papers	211 citations	7 h-index	11 g-index
55 ext. papers	255 ext. citations	2.7 avg, IF	4.4 L-index

#	Paper	IF	Citations
50	Passive fault tolerant perfect tracking with additive faults. *Automatica*, **2018**, 87, 432-436	5.7	21
49	Fault Tolerant Control of Descriptor Systems With Disturbances. *IEEE Transactions on Automatic Control*, **2019**, 64, 976-988	5.9	16
48	LQ control of descriptor systems by cancelling structure at infinity. *International Journal of Control*, **2006**, 79, 224-238	1.5	12
47	${mathscr H}_infty$ Problem with Nonstrict Inequality and All Solutions: Interpolation Approach. *SIAM Journal on Control and Optimization*, **2015**, 53, 1734-1767	1.9	11
46	New Results and Application of Singular Control. *IEEE Transactions on Automatic Control*, **2011**, 56, 632-637	5.9	9
45	Discrete J-spectral factorization of possibly singular polynomial matrices. *Systems and Control Letters*, **2004**, 53, 127-140	2.4	9
44	On general H2 control: from frequency to time domain. *International Journal of Control*, **2010**, 83, 2519-2535	1.5	8
43	A new approach to static output feedback stabilization of linear dynamic systems. *International Journal of Systems Science*, **2006**, 37, 643-662	2.3	7
42	Canonical form of para-Hermitian pencils, generalized spectral factorization, and optimal control over frequency region. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 1301-1323	3.6	6
41	LQ control of rectangular descriptor systems: Numerical algorithm and existence results. *Optimal Control Applications and Methods*, **2011**, 32, 505-526	1.7	6
40	LQ control of descriptor systems: a spectral factorisation approach. *International Journal of Control*, **2010**, 83, 585-600	1.5	6
39	Numerical J-spectral factorization of general para-hermitian matrices. *Systems and Control Letters*, **2008**, 57, 1058-1066	2.4	6
38	Generating equations approach for quadratic matrix equations. *Numerical Linear Algebra With Applications*, **1999**, 6, 295-326	1.6	6
37	Fault-tolerant control in presence of disturbances based on fault estimation. *Systems and Control Letters*, **2020**, 138, 104646	2.4	5
36	Strongly (J,J?)-lossless rational matrices and H∞ problem. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 4261	3.6	5
35	Algorithms for optimal control with invariant zeros on the extended imaginary axis. *Systems and Control Letters*, **2013**, 62, 587-596	2.4	5
34	All Solutions of a Bitangential Interpolation Problem that Includes Boundary Points. *SIAM Journal on Control and Optimization*, **2013**, 51, 4387-4413	1.9	5

33	Polynomial J-spectral factorization in minimal state space. *Automatica*, **2003**, 39, 1893-1901	5.7	5
32	Condensed forms of linear control system under output feedback. *Linear Algebra and Its Applications*, **2001**, 328, 1-55	0.9	5
31	Input Estimation Over Frequency Region in Presence of Disturbances. *IEEE Transactions on Automatic Control*, **2019**, 64, 5074-5079	5.9	4
30	Optimal boundary interpolation and one-block optimal control problem with invariant zeros on the imaginary axis and infinity. *International Journal of Control*, **2014**, 87, 1757-1778	1.5	4
29	General optimal attenuation of harmonic disturbance with unknown frequencies. *International Journal of Control*, **2012**, 85, 260-279	1.5	4
28	Spectral factorization of non-symmetric polynomial matrices. *Linear Algebra and Its Applications*, **2006**, 412, 412-440	0.9	4
27	Kalman–Yakubovi–Popov lemma for descriptor systems. *Systems and Control Letters*, **2014**, 74, 8-13	2.4	3
26	Structure-preserving numerical algorithm for solving discrete-time LMI and DARS. *Systems and Control Letters*, **2011**, 60, 205-210	2.4	3
25	Transformation of -spectral factorization of improper matrices to proper matrices. *Systems and Control Letters*, **2010**, 59, 48-49	2.4	3
24	Simplified Formula for a Controller in Optimal Control Problems. *SIAM Journal on Control and Optimization*, **2007**, 45, 2011-2034	1.9	3
23	Infinite-dimensional conservative systems and a conservativity condition for the Saint-Venant equations. *International Journal of Control*, **2000**, 73, 1224-1234	1.5	3
22	New interpolation solution and application in system modeling and optimal control with prescribed distance to instability. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 2455-2477	3.6	3
21	Fault Detection Over Frequency Region: Generalized Spectral Factorization Approach. *IEEE Transactions on Automatic Control*, **2017**, 62, 5296-5301	5.9	2
20	New approach on solving control problems with descriptor systems. *Journal of the Franklin Institute*, **2019**, 356, 3270-3289	4	2
19	A reformulation of augmented basic interpolation problem and an application to H control. *Linear Algebra and Its Applications*, **2015**, 485, 103-123	0.9	2
18	${mathscr H}_{infty}$ Control of Descriptor Systems Possessing Invariant Zeros on the Imaginary Axis and Infinity. *IEEE Transactions on Automatic Control*, **2015**, 60, 3127-3139	5.9	2
17	Almost fault-tolerant tracking. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 2219-2247	3.6	2
16	New class of FD filters in presence of disturbances. *Journal of the Franklin Institute*, **2018**, 355, 1311-1337	4	2

15	Singular H 2 control of discrete-time systems: From frequency to time domain. *International Journal of Robust and Nonlinear Control*, **2010**, 20, 1930-1944	3.6	2
14	Feedback affinization of nonlinear control systems. *Systems and Control Letters*, **2002**, 46, 207-217	2.4	2
13	Interpolation with constraint on frequency region and systems & control application. *Systems and Control Letters*, **2016**, 97, 70-82	2.4	2
12	Novel All-Pass Factorization, All Solutions to Rational Matrix Equation and Control Application. *IEEE Transactions on Automatic Control*, **2020**, 65, 3176-3183	5.9	1
11	FTC in presence of disturbances and un-estimable faults. *Automatica*, **2020**, 115, 108876	5.7	1
10	New Condition for FD, All Filters, and New KYP Lemma. *Asian Journal of Control*, **2018**, 20, 1647-1657	1.7	1
9	A coprime factorisation and its application in H2 control. *International Journal of Control*, **2010**, 83, 741-755	1.5	1
8	${\mathcal F}$-Passive Systems and Control Application. *IEEE Transactions on Automatic Control*, **2021**, 66, 1545-1558	5.9	1
7	Polynomial J -spectral factorization method for optimal control of discrete-time systems. *IFAC-PapersOnLine*, **2017**, 50, 6099-6104	0.7	
6	LQ tracking and disturbance rejecting with invariant zeros on the unit circle. *International Journal of Systems Science*, **2016**, 47, 835-851	2.3	
5	Optimal tracking and disturbance rejection with invariant zeros on the unit circle: a polynomial spectral factorization design. *IFAC-PapersOnLine*, **2017**, 50, 381-386	0.7	
4	Column and diagonal-reduction of polynomial matrices by orthogonal transformation. *Asian Journal of Control*, **2008**, 10, 581-588	1.7	
3	Automated Open-Canal Water-Supply Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 189-194		
2	Static output feedback passivation revisited and global asymptotic stabilizing properties of a controller. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 7382-7408	3.6	
1	Novel controller design for fault tolerant tracking with general additive faults and disturbances. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 7724	3.6	