Jovan D Stefanovski

List of Publications by Year
in descending order

55	280	1162367 8	1125271 13
papers	citations	h-index	g-index

55	55	55	135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	${mathcal F}$-Passive Systems and Control Application. IEEE Transactions on Automatic Control, 2021, 66, 1545-1558.	3.6	3
2	Novel controller design for fault tolerant tracking with general additive faults and disturbances. International Journal of Robust and Nonlinear Control, 2021, 31, 7724.	2.1	1
3	Static output feedback passivation revisited and global asymptotic stabilizing properties of a controller. International Journal of Robust and Nonlinear Control, 2020, 30, 7382-7408.	2.1	1
4	Novel All-Pass Factorization, All Solutions to Rational Matrix Equation and Control Application. IEEE Transactions on Automatic Control, 2020, 65, 3176-3183.	3.6	1
5	FTC in presence of disturbances and un-estimable faults. Automatica, 2020, 115, 108876.	3.0	2
6	Fault-tolerant control in presence of disturbances based on fault estimation. Systems and Control Letters, 2020, 138, 104646.	1.3	9
7	Almost faultâ€tolerant tracking. International Journal of Robust and Nonlinear Control, 2020, 30, 2219-2247.	2.1	2
8	Stability of Nonlinear Descriptor Systems and Applications to Stabilization of Quadcopters. Acta Polytechnica Hungarica, 2020, 17, 67-88.	2.5	1
9	Input Estimation Over Frequency Region in Presence of Disturbances. IEEE Transactions on Automatic Control, 2019, 64, 5074-5079.	3.6	5
10	New approach on solving control problems with descriptor systems. Journal of the Franklin Institute, 2019, 356, 3270-3289.	1.9	3
11	Fault Tolerant Control of Descriptor Systems With Disturbances. IEEE Transactions on Automatic Control, 2019, 64, 976-988.	3.6	22
12	New class of FD filters in presence of disturbances. Journal of the Franklin Institute, 2018, 355, 1311-1337.	1.9	2
13	Passive fault tolerant perfect tracking with additive faults. Automatica, 2018, 87, 432-436.	3.0	38
14	New Condition for FD, All Filters, and New KYP Lemma. Asian Journal of Control, 2018, 20, 1647-1657.	1.9	1
15	Strongly (J,Jâ€²)â€lossless rational matrices and â„‹_{âˆž} problem. International Journal of Robust and Nonlinear Control, 2018, 28, 4261-4286.	2.1	8
16	Fault Detection Over Frequency Region: Generalized Spectral Factorization Approach. IEEE Transactions on Automatic Control, 2017, 62, 5296-5301.	3.6	2
17	Polynomial J -spectral factorization method for optimal control of discrete-time systems. IFAC-PapersOnLine, 2017, 50, 6099-6104.	0.5	0
18	Optimal tracking and disturbance rejection with invariant zeros on the unit circle: a polynomial spectral factorization design. IFAC-PapersOnLine, 2017, 50, 381-386.	0.5	0

#	Article	IF	Citations
19	New criterion and algorithm for fault tolerant control over frequency region in presence of additive faults and disturbances. , 2017, , .		0
20	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.	2.1	3
21	Interpolation with constraint on frequency region and systems & control application. Systems and Control Letters, 2016, 97, 70-82.	1.3	2
22	LQ tracking and disturbance rejecting with invariant zeros on the unit circle. International Journal of Systems Science, 2016, 47, 835-851.	3.7	0
23	A reformulation of augmented basic interpolation problem and an application to Hâˆž control. Linear Algebra and Its Applications, 2015, 485, 103-123.	0.4	2
24	${mathscr H}_infty$ Problem with Nonstrict Inequality and All Solutions: Interpolation Approach. SIAM Journal on Control and Optimization, 2015, 53, 1734-1767.	1.1	14
25	${mathscr H}_{infty}$ Control of Descriptor Systems Possessing Invariant Zeros on the Imaginary Axis and Infinity. IEEE Transactions on Automatic Control, 2015, 60, 3127-3139.	3.6	3
26	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.	1.2	5
27	Kalmanâ€“YakuboviÄâ€“Popov lemma for descriptor systems. Systems and Control Letters, 2014, 74, 8-13.	1.3	5
28	Canonical form of paraâ€Hermitian pencils, generalized spectral factorization, and optimal control over frequency region. International Journal of Robust and Nonlinear Control, 2013, 23, 1301-1323.	2.1	8
29	Algorithms for optimal control with invariant zeros on the extended imaginary axis. Systems and Control Letters, 2013, 62, 587-596.	1.3	7
30	All Solutions of a Bitangential Interpolation Problem that Includes Boundary Points. SIAM Journal on Control and Optimization, 2013, 51, 4387-4413.	1.1	6
31	General optimal attenuation of harmonic disturbance with unknown frequencies. International Journal of Control, 2012, 85, 260-279.	1.2	4
32	New Results and Application of Singular Control. IEEE Transactions on Automatic Control, 2011, 56, 632-637.	3.6	9
33	LQ control of rectangular descriptor systems: Numerical algorithm and existence results. Optimal Control Applications and Methods, 2011, 32, 505-526.	1.3	8
34	Structure-preserving numerical algorithm for solving discrete-time LMI and DARS. Systems and Control Letters, 2011, 60, 205-210.	1.3	3
35	Transformation of -spectral factorization of improper matrices to proper matrices. Systems and Control Letters, 2010, 59, 48-49.	1.3	3
36	Singular â„‹₂ control of discreteâ€time systems: From frequency to time domain. International Journal of Robust and Nonlinear Control, 2010, 20, 1930-1944.	2.1	3

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37	LQ control of descriptor systems: a spectral factorisation approach. International Journal of Control, 2010, 83, 585-600.	1.2	7
38	A coprime factorisation and its application in â„‹2 control. International Journal of Control, 2010, 83, 741-751.	1.2	2
39	On general â„‹₂control: from frequency to time domain. International Journal of Control, 2010, 83, 2519-2535.	1.2	9
40	Numerical -spectral factorization of general para-hermitian matrices. Systems and Control Letters, 2008, 57, 1058-1066.	1.3	9
41	Column and diagonalâ€reduction of polynomial matrices by orthogonal transformation. Asian Journal of Control, 2008, 10, 581-588.	1.9	0
42	Simplified Formula for a Controller in Optimal Control Problems. SIAM Journal on Control and Optimization, 2007, 45, 2011-2034.	1.1	3
43	A new approach to static output feedback stabilization of linear dynamic systems. International Journal of Systems Science, 2006, 37, 643-662.	3.7	7
44	Spectral factorization of non-symmetric polynomial matrices. Linear Algebra and Its Applications, 2006, 412, 412-440.	0.4	5
45	LQ control of descriptor systems by cancelling structure at infinity. International Journal of Control, 2006, 79, 224-238.	1.2	12
46	Exponential Stability Synthesis of Networked Nonlinear Control Systems in FMS. , 2006, , .		3
47	Discrete J-spectral factorization of possibly singular polynomial matrices. Systems and Control Letters, 2004, 53, 127-140.	1.3	12
48	Polynomial J-spectral factorization in minimal state space. Automatica, 2003, 39, 1893-1901.	3.0	6
49	Feedback affinization of nonlinear control systems. Systems and Control Letters, 2002, 46, 207-217.	1.3	2
50	Automated Open-Canal Water-Supply Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 189-194.	0.4	0
51	Condensed forms of linear control system under output feedback. Linear Algebra and Its Applications, 2001, 328, 1-55.	0.4	5
52	Infinite-dimensional conservative systems and a conservativity condition for the Saint-Venant equations. International Journal of Control, 2000, 73, 1224-1234.	1.2	3
53	Generating equations approach for quadratic matrix equations. Numerical Linear Algebra With Applications, 1999, 6, 295-326.	0.9	6
54	ILMI algorithm for robust stabilization under structured uncertainties. International Journal of Adaptive Control and Signal Processing, 0, , .	2.3	1

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55	Robust stabilization under structured, possibly unstable and impulsive uncertainties. International Journal of Robust and Nonlinear Control, 0, , .	2.1	2