

Jovan D Stefanovski

List of Publications by Year in descending order

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55
papers

280
citations

1162367

8
h-index

1125271

13
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55
all docs

55
docs citations

55
times ranked

135
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive fault tolerant perfect tracking with additive faults. <i>Automatica</i> , 2018, 87, 432-436.	3.0	38
2	Fault Tolerant Control of Descriptor Systems With Disturbances. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 976-988.	3.6	22
3	\mathcal{H}_∞ Problem with Nonstrict Inequality and All Solutions: Interpolation Approach. <i>SIAM Journal on Control and Optimization</i> , 2015, 53, 1734-1767.	1.1	14
4	Discrete J-spectral factorization of possibly singular polynomial matrices. <i>Systems and Control Letters</i> , 2004, 53, 127-140.	1.3	12
5	LQ control of descriptor systems by cancelling structure at infinity. <i>International Journal of Control</i> , 2006, 79, 224-238.	1.2	12
6	Numerical λ -spectral factorization of general para-hermitian matrices. <i>Systems and Control Letters</i> , 2008, 57, 1058-1066.	1.3	9
7	On general H_2 control: from frequency to time domain. <i>International Journal of Control</i> , 2010, 83, 2519-2535.	1.2	9
8	New Results and Application of Singular Control. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 632-637.	3.6	9
9	Fault-tolerant control in presence of disturbances based on fault estimation. <i>Systems and Control Letters</i> , 2020, 138, 104646.	1.3	9
10	LQ control of rectangular descriptor systems: Numerical algorithm and existence results. <i>Optimal Control Applications and Methods</i> , 2011, 32, 505-526.	1.3	8
11	Canonical form of para-Hermitian pencils, generalized spectral factorization, and optimal control over frequency region. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 1301-1323.	2.1	8
12	Strongly λ -lossless rational matrices and λ -lossless problem. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 4261-4286.	2.1	8
13	A new approach to static output feedback stabilization of linear dynamic systems. <i>International Journal of Systems Science</i> , 2006, 37, 643-662.	3.7	7
14	LQ control of descriptor systems: a spectral factorisation approach. <i>International Journal of Control</i> , 2010, 83, 585-600.	1.2	7
15	Algorithms for optimal control with invariant zeros on the extended imaginary axis. <i>Systems and Control Letters</i> , 2013, 62, 587-596.	1.3	7
16	Generating equations approach for quadratic matrix equations. <i>Numerical Linear Algebra With Applications</i> , 1999, 6, 295-326.	0.9	6
17	Polynomial J-spectral factorization in minimal state space. <i>Automatica</i> , 2003, 39, 1893-1901.	3.0	6
18	All Solutions of a Bitangential Interpolation Problem that Includes Boundary Points. <i>SIAM Journal on Control and Optimization</i> , 2013, 51, 4387-4413.	1.1	6

#	ARTICLE	IF	CITATIONS
19	Condensed forms of linear control system under output feedback. Linear Algebra and Its Applications, 2001, 328, 1-55.	0.4	5
20	Spectral factorization of non-symmetric polynomial matrices. Linear Algebra and Its Applications, 2006, 412, 412-440.	0.4	5
21	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
22	Kalmanâ€™YakuboviÄ‡â€™Popov lemma for descriptor systems. Systems and Control Letters, 2014, 74, 8-13.	1.3	5
23	Input Estimation Over Frequency Region in Presence of Disturbances. IEEE Transactions on Automatic Control, 2019, 64, 5074-5079.	3.6	5
24	General optimal attenuation of harmonic disturbance with unknown frequencies. International Journal of Control, 2012, 85, 260-279.	1.2	4
25	Infinite-dimensional conservative systems and a conservativity condition for the Saint-Venant equations. International Journal of Control, 2000, 73, 1224-1234.	1.2	3
26	Exponential Stability Synthesis of Networked Nonlinear Control Systems in FMS. , 2006, , .		3
27	Simplified Formula for a Controller in Optimal Control Problems. SIAM Journal on Control and Optimization, 2007, 45, 2011-2034.	1.1	3
28	Transformation of λ -spectral factorization of improper matrices to proper matrices. Systems and Control Letters, 2010, 59, 48-49.	1.3	3
29	Singular $\hat{\sigma}_2$ control of discrete-time systems: From frequency to time domain. International Journal of Robust and Nonlinear Control, 2010, 20, 1930-1944.	2.1	3
30	Structure-preserving numerical algorithm for solving discrete-time LMI and DARS. Systems and Control Letters, 2011, 60, 205-210.	1.3	3
31	\mathcal{H}_∞ 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
32	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
33	New approach on solving control problems with descriptor systems. Journal of the Franklin Institute, 2019, 356, 3270-3289.	1.9	3
34	\mathcal{F} -Passive Systems and Control Application. IEEE Transactions on Automatic Control, 2021, 66, 1545-1558.	3.6	3
35	Feedback affinization of nonlinear control systems. Systems and Control Letters, 2002, 46, 207-217.	1.3	2
36	A coprime factorisation and its application in $\hat{\sigma}_2$ control. International Journal of Control, 2010, 83, 741-751.	1.2	2

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37	A reformulation of augmented basic interpolation problem and an application to H ∞ control. Linear Algebra and Its Applications, 2015, 485, 103-123.	0.4	2
38	Interpolation with constraint on frequency region and systems & control application. Systems and Control Letters, 2016, 97, 70-82.	1.3	2
39	Fault Detection Over Frequency Region: Generalized Spectral Factorization Approach. IEEE Transactions on Automatic Control, 2017, 62, 5296-5301.	3.6	2
40	New class of FD filters in presence of disturbances. Journal of the Franklin Institute, 2018, 355, 1311-1337.	1.9	2
41	FTC in presence of disturbances and un-estimable faults. Automatica, 2020, 115, 108876.	3.0	2
42	Almost fault-tolerant tracking. International Journal of Robust and Nonlinear Control, 2020, 30, 2219-2247.	2.1	2
43	Robust stabilization under structured, possibly unstable and impulsive uncertainties. International Journal of Robust and Nonlinear Control, 0, , .	2.1	2
44	New Condition for FD, All Filters, and New KYP Lemma. Asian Journal of Control, 2018, 20, 1647-1657.	1.9	1
45	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
46	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
47	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
48	Stability of Nonlinear Descriptor Systems and Applications to Stabilization of Quadcopters. Acta Polytechnica Hungarica, 2020, 17, 67-88.	2.5	1
49	ILMI algorithm for robust stabilization under structured uncertainties. International Journal of Adaptive Control and Signal Processing, 0, , .	2.3	1
50	Automated Open-Canal Water-Supply Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 189-194.	0.4	0
51	Column and diagonal-reduction of polynomial matrices by orthogonal transformation. Asian Journal of Control, 2008, 10, 581-588.	1.9	0
52	LQ tracking and disturbance rejecting with invariant zeros on the unit circle. International Journal of Systems Science, 2016, 47, 835-851.	3.7	0
53	Polynomial J-spectral factorization method for optimal control of discrete-time systems. IFAC-PapersOnLine, 2017, 50, 6099-6104.	0.5	0
54	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

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55	New criterion and algorithm for fault tolerant control over frequency region in presence of additive faults and disturbances. , 2017, , .		0