

# Jovan D Stefanovski

## 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.

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	$\mathcal{F}$ -Passive Systems and Control Application. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1545-1558	5.9	1
49	Novel controller design for fault tolerant tracking with general additive faults and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 7724	3.6	
48	Novel All-Pass Factorization, All Solutions to Rational Matrix Equation and Control Application. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3176-3183	5.9	1
47	FTC in presence of disturbances and un-estimable faults. <i>Automatica</i> , <b>2020</b> , 115, 108876	5.7	1
46	Fault-tolerant control in presence of disturbances based on fault estimation. <i>Systems and Control Letters</i> , <b>2020</b> , 138, 104646	2.4	5
45	Almost fault-tolerant tracking. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 2219-2243	3.6	2
44	Static output feedback passivation revisited and global asymptotic stabilizing properties of a controller. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 7382-7408	3.6	
43	New approach on solving control problems with descriptor systems. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 3270-3289	4	2
42	Input Estimation Over Frequency Region in Presence of Disturbances. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 5074-5079	5.9	4
41	Fault Tolerant Control of Descriptor Systems With Disturbances. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 976-988	5.9	16
40	New class of FD filters in presence of disturbances. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 1311-1337	4	2
39	Passive fault tolerant perfect tracking with additive faults. <i>Automatica</i> , <b>2018</b> , 87, 432-436	5.7	21
38	New Condition for FD, All Filters, and New KYP Lemma. <i>Asian Journal of Control</i> , <b>2018</b> , 20, 1647-1657	1.7	1
37	Strongly $(J, J^*)$ -lossless rational matrices and $H_2$ problem. <i>International Journal of Robust and Nonlinear Control</i> , <b>2018</b> , 28, 4261	3.6	5
36	Fault Detection Over Frequency Region: Generalized Spectral Factorization Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5296-5301	5.9	2
35	Polynomial $J$ -spectral factorization method for optimal control of discrete-time systems. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 6099-6104	0.7	
34	Optimal tracking and disturbance rejection with invariant zeros on the unit circle: a polynomial spectral factorization design. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 381-386	0.7	

33	LQ tracking and disturbance rejecting with invariant zeros on the unit circle. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 835-851	2.3	
32	New interpolation solution and application in system modeling and optimal control with prescribed distance to instability. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 2455-2477	3.6	3
31	Interpolation with constraint on frequency region and systems & control application. <i>Systems and Control Letters</i> , <b>2016</b> , 97, 70-82	2.4	2
30	A reformulation of augmented basic interpolation problem and an application to $H_\infty$ control. <i>Linear Algebra and Its Applications</i> , <b>2015</b> , 485, 103-123	0.9	2
29	$\mathcal{H}_\infty$ Problem with Nonstrict Inequality and All Solutions: Interpolation Approach. <i>SIAM Journal on Control and Optimization</i> , <b>2015</b> , 53, 1734-1767	1.9	11
28	$\mathcal{H}_\infty$ Control of Descriptor Systems Possessing Invariant Zeros on the Imaginary Axis and Infinity. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 3127-3139	5.9	2
27	Optimal boundary interpolation and one-block optimal control problem with invariant zeros on the imaginary axis and infinity. <i>International Journal of Control</i> , <b>2014</b> , 87, 1757-1778	1.5	4
26	Kalman-Yakubovich-Popov lemma for descriptor systems. <i>Systems and Control Letters</i> , <b>2014</b> , 74, 8-13	2.4	3
25	Canonical form of para-Hermitian pencils, generalized spectral factorization, and optimal control over frequency region. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 1301-1323	3.6	6
24	Algorithms for optimal control with invariant zeros on the extended imaginary axis. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 587-596	2.4	5
23	All Solutions of a Bitangential Interpolation Problem that Includes Boundary Points. <i>SIAM Journal on Control and Optimization</i> , <b>2013</b> , 51, 4387-4413	1.9	5
22	General optimal attenuation of harmonic disturbance with unknown frequencies. <i>International Journal of Control</i> , <b>2012</b> , 85, 260-279	1.5	4
21	LQ control of rectangular descriptor systems: Numerical algorithm and existence results. <i>Optimal Control Applications and Methods</i> , <b>2011</b> , 32, 505-526	1.7	6
20	New Results and Application of Singular Control. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 632-637	3.7	9
19	Structure-preserving numerical algorithm for solving discrete-time LMI and DARS. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 205-210	2.4	3
18	LQ control of descriptor systems: a spectral factorisation approach. <i>International Journal of Control</i> , <b>2010</b> , 83, 585-600	1.5	6
17	A coprime factorisation and its application in $H_2$ control. <i>International Journal of Control</i> , <b>2010</b> , 83, 741-754	1.5	1
16	On general $H_2$ control: from frequency to time domain. <i>International Journal of Control</i> , <b>2010</b> , 83, 2519-2535	3.5	8

15	Transformation of $J$ -spectral factorization of improper matrices to proper matrices. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 48-49	2.4	3
14	Singular $H_2$ control of discrete-time systems: From frequency to time domain. <i>International Journal of Robust and Nonlinear Control</i> , <b>2010</b> , 20, 1930-1944	3.6	2
13	Numerical $J$ -spectral factorization of general para-hermitian matrices. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 1058-1066	2.4	6
12	Column and diagonal-reduction of polynomial matrices by orthogonal transformation. <i>Asian Journal of Control</i> , <b>2008</b> , 10, 581-588	1.7	
11	Simplified Formula for a Controller in Optimal Control Problems. <i>SIAM Journal on Control and Optimization</i> , <b>2007</b> , 45, 2011-2034	1.9	3
10	LQ control of descriptor systems by cancelling structure at infinity. <i>International Journal of Control</i> , <b>2006</b> , 79, 224-238	1.5	12
9	A new approach to static output feedback stabilization of linear dynamic systems. <i>International Journal of Systems Science</i> , <b>2006</b> , 37, 643-662	2.3	7
8	Spectral factorization of non-symmetric polynomial matrices. <i>Linear Algebra and Its Applications</i> , <b>2006</b> , 412, 412-440	0.9	4
7	Discrete $J$ -spectral factorization of possibly singular polynomial matrices. <i>Systems and Control Letters</i> , <b>2004</b> , 53, 127-140	2.4	9
6	Polynomial $J$ -spectral factorization in minimal state space. <i>Automatica</i> , <b>2003</b> , 39, 1893-1901	5.7	5
5	Feedback affinization of nonlinear control systems. <i>Systems and Control Letters</i> , <b>2002</b> , 46, 207-217	2.4	2
4	Automated Open-Canal Water-Supply Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2001</b> , 34, 189-194		
3	Condensed forms of linear control system under output feedback. <i>Linear Algebra and Its Applications</i> , <b>2001</b> , 328, 1-55	0.9	5
2	Infinite-dimensional conservative systems and a conservativity condition for the Saint-Venant equations. <i>International Journal of Control</i> , <b>2000</b> , 73, 1224-1234	1.5	3
1	Generating equations approach for quadratic matrix equations. <i>Numerical Linear Algebra With Applications</i> , <b>1999</b> , 6, 295-326	1.6	6