Ivan Ivanov

List of Publications by Year
in descending order

43 papers	648 citations	623734 14 h-index	580821 25 g-index
43 all docs	43 docs citations	43 times ranked	427 citing authors

#	Article	IF	Citations
1	Improved methods and starting values to solve the matrix equations $X \pm A^* X^{-1} A = I$ iteratively. Mathematics of Computation, 2004, 74, 263-279.	2.1	64
2	On matrix equations $X \pm A^* X^{-2} A = I$. Linear Algebra and Its Applications, 2001, 326, 27-44.	0.9	61
3	Properties of positive definite solutions of the equation $X + A^{-} X^{-2} A = I$. Linear Algebra and Its Applications, 1998, 279, 303-316.	0.9	57
4	Comparative metabolic profiling of Haberlea rhodopensis, Thellungiella halophyla, and Arabidopsis thaliana exposed to low temperature. Frontiers in Plant Science, 2013, 4, 499.	3.6	57
5	On two perturbation estimates of the extreme solutions to the equations $X \pm A^* X^{-1} A = Q$. Linear Algebra and Its Applications, 2006, 413, 81-92.	0.9	43
6	On positive definite solutions of the family of matrix equations <mml:math altimg="si21.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	2.0	42
7	Solutions and perturbation estimates for the matrix equations. Applied Mathematics and Computation, 2004, 156, 513-525.	2.2	37
8	Molecular Mechanisms Preventing Senescence in Response to Prolonged Darkness in a Desiccation-Tolerant Plant. Plant Physiology, 2018, 177, 1319-1338.	4.8	26
9	On the design of polymeric 5′-O-ester prodrugs of 3′-azido-2′,3′-dideoxythymidine (AZT). Tetrahedron Letters, 2010, 51, 6123-6125.	1.4	25
10	Improved perturbation estimates for the matrix equations $X \pm A^{-} X^{-1} A = Q$. Linear Algebra and Its Applications, 2004, 379, 113-135.	0.9	23
11	On some iterations for optimal control of jump linear equations. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 4012-4024.	1.1	19
12	Properties of Stein (Lyapunov) iterations for solving a general Riccati equation. Nonlinear Analysis: Theory, Methods & Applications, 2007, 67, 1155-1166.	1.1	17
13	Iterations for solving a rational Riccati equation arising in stochastic control. Computers and Mathematics With Applications, 2007, 53, 977-988.	2.7	17
14	A numerical procedure to compute the stabilising solution of game theoretic Riccati equations of stochastic control. International Journal of Control, 2011, 84, 783-800.	1.9	15
15	Computation of the stabilizing solution of game theoretic Riccati equation arising in stochastic H ∞ control problems. Numerical Algorithms, 2011, 57, 357-375.	1.9	13
16	Perturbation analysis for solutions of $X \pm A^* X^{-n} A = Q$. Linear Algebra and Its Applications, 2005, 395, 313-331.	0.9	11
17	Stein iterations for the coupled discrete-time Riccati equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 6244-6253.	1.1	11
18	Expression of Biologically Active Human Interferon Gamma in the Milk of Transgenic Mice Under the Control of the Murine Whey Acidic Protein Gene Promoter. Biochemical Genetics, 2011, 49, 251-257.	1.7	11

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19	Changes of erythrocyte-metric parameters in Pelophylax ridibundus (Amphibia: Anura: Ranidae) inhabiting water bodies with different types of anthropogenic pollution in Southern Bulgaria. Environmental Science and Pollution Research, 2017, 24, 17920-17934.	5.3	9
20	On the stochastic linear quadratic control problem with piecewise constant admissible controls. Journal of the Franklin Institute, 2020, 357, 1532-1559.	3.4	9
21	On the matrix equation $X−A−X−nA=I$. Applied Mathematics and Computation, 2005, 168, 1340-1356.	2.2	8
22	A method to solve the discrete-time coupled algebraic Riccati equations. Applied Mathematics and Computation, 2008, 206, 34-41.	2.2	8
23	Stock market recovery from the 2008 financial crisis: The differences across Europe. Research in International Business and Finance, 2016, 37, 360-374.	5.9	8
24	On computing the stabilizing solution of a class of discrete‐time periodic Riccati equations. International Journal of Robust and Nonlinear Control, 2015, 25, 1066-1093.	3.7	7
25	Sufficient conditions for Nash equilibrium point in the linear quadratic game for Markov jump positive systems. IET Control Theory and Applications, 2017, 11, 2658-2667.	2.1	7
26	Measuring sustainable governance in the European Union. International Journal of Sustainable Development and World Ecology, 2011, 18, 412-423.	5.9	6
27	A wavelet-based approach to the analysis and modelling of financial time series exhibiting strong long-range dependence: the case of Southeast Europe. Journal of Applied Statistics, 2016, 43, 655-673.	1.3	5
28	Iterative algorithms for computing the feedback Nash equilibrium point for positive systems. International Journal of Systems Science, 2017, 48, 729-737.	5.5	5
29	Stochastic linear quadratic differential games in a state feedback setting with sampled measurements. Systems and Control Letters, 2019, 134, 104563.	2.3	5
30	Decoupled Stein iterations to the discrete-time generalized Riccati equations. IET Control Theory and Applications, 2012, 6, 1400-1409.	2.1	3
31	Optimal boundary control of 2 × 2 linear hyperbolic PDEs. , 2016, , .		3
32	Numerical Solution of the Discrete-Time Coupled Algebraic Riccati Equations. Lecture Notes in Computer Science, 2009, , 314-321.	1.3	3
33	Reachability and Observability of Positive Linear Electrical Circuits Systems Described by Generalized Fractional Derivatives. Mathematics, 2021, 9, 2856.	2.2	3
34	The LMI Approach for Stabilizing of Linear Stochastic Systems. International Journal of Stochastic Analysis, 2013, 2013, 1-5.	0.3	2
35	Interval Methods with Fifth Order of Convergence for Solving Nonlinear Scalar Equations. Axioms, 2019, 8, 15.	1.9	2
36	On the closed loop Nash equilibrium strategy for a class of sampled data stochastic linear quadratic differential games. Chaos, Solitons and Fractals, 2020, 137, 109877.	5.1	2

#	Article	IF	Citations
37	On the Matrix Equation$X = Q - S^{*}X^{-1}S$. Numerical Functional Analysis and Optimization, 2007, 28, 353-365.	1.4	1
38	A new iteration to coupled discrete-time generalized Riccati equations. Computational and Applied Mathematics, 2013, 32, 563-576.	1.3	1
39	The Iterative Solution to Discrete-Time H∞ Control Problems for Periodic Systems. Algorithms, 2016, 9, 20.	2.1	1
40	Closed-Loop Nash Equilibrium in the Class of Piecewise Constant Strategies in a Linear State Feedback Form for Stochastic LQ Games. Mathematics, 2021, 9, 2713.	2.2	1
41	Stochastic Modeling and Financial Applications. Discrete Dynamics in Nature and Society, 2013, 2013, 1-2.	0.9	0
42	The iterative solution to LQ zero-sum stochastic differential games. Journal of Applied Mathematics and Computing, 2018, 56, 547-559.	2.5	0
43	The bootstrap procedure in classification problems. International Journal of Data Mining, Modelling and Management, 2020, 12, 428.	0.1	0