Mohamed Abdel Latif Ramadan

List of Publications by Year
in descending order

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65	777	623734	610901
papers	citations	14 h-index	24 g-index

66	66	66	429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	(R, S) conjugate solution to coupled Sylvester complex matrix equations with conjugate of two unknowns. Automatika, 2022, 63, 454-462.	2.0	0
2	A fractionalâ€order mathematical model for analyzing the pandemic trend of COVIDâ€19. Mathematical Methods in the Applied Sciences, 2022, 45, 4625-4642.	2.3	15
3	A Combination of Bernstein and Improved Block-Pulse Functions for Solving a System of Linear Fredholm Integral Equations. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	2
4	Matrix computational collocation approach based on rational Chebyshev functions for nonlinear differential equations. Advances in Difference Equations, 2021, 2021, .	3.5	26
5	Improved Block-Pulse Functions for Numerical Solution of Mixed Volterra-Fredholm Integral Equations. Axioms, 2021, 10, 200.	1.9	12
6	A Comparison Study of Numerical Techniques for Solving Ordinary Differential Equations Defined on a Semi-Infinite Domain Using Rational Chebyshev Functions. Journal of Function Spaces, 2021, 2021, 1-12.	0.9	2
7	A Highly Efficient and Accurate Finite Iterative Method for Solving Linear Two-Dimensional Fredholm Fuzzy Integral Equations of the Second Kind Using Triangular Functions. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.1	1
8	Triangular functions based method for the solution of system of linear Fredholm integral equations via an efficient finite iterative algorithm. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2847-2858.	1.4	3
9	A new hybrid orthonormal Bernstein and improved block-pulse functions method for solving mathematical physics and engineering problems. AEJ - Alexandria Engineering Journal, 2020, 59, 3643-3652.	6.4	9
10	Study of hybrid orthonormal functions method for solving second kind fuzzy Fredholm integral equations. Advances in Difference Equations, 2020, 2020, .	3.5	9
11	A Novel Analytical Technique of the Fractional Bagley-Torvik Equations for Motion of a Rigid Plate in Newtonian Fluids. CMES - Computer Modeling in Engineering and Sciences, 2020, 124, 969-983.	1.1	3
12	Solving Two Coupled Fuzzy Sylvester Matrix Equations Using Iterative Least-squares Solutions. Fuzzy Information and Engineering, 2020, 12, 464-489.	1.7	0
13	A c ombination of Sylvester block sum and block matrix Kronecker map for explicit solutions of Sylvester system of matrix equations. Mathematical Methods in the Applied Sciences, 2019, 42, 7506-7516.	2.3	1
14	Iterative algorithm for the reflexive solutions of the generalized Sylvester matrix equation. Journal of the Egyptian Mathematical Society, 2019, 27, .	1.2	1
15	Highly Accurate Numerical Technique for Population Models via Rational Chebyshev Collocation Method. Mathematics, 2019, 7, 913.	2.2	4
16	One-Step New Iterative Method for Solving Bagleyâ€“Torvik Fractional Differential Equation. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2493-2500.	1.5	2
17	The anti-reflexive solutions for the matrix equation $$ AV + BW = EVF + C $$ A V + B W = E V F + C. Computational and Applied Mathematics, 2019, 38, 1.	2.2	4
18	Finite iterative HermitianR-conjugate solutions of the generalized coupled Sylvester-conjugate matrix equations. Computers and Mathematics With Applications, 2018, 75, 3367-3378.	2.7	3

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19	An accelerated gradient-based iterative algorithm for solving extended Sylvesterâ€“conjugate matrix equations. Transactions of the Institute of Measurement and Control, 2018, 40, 341-347.	1.7	9
20	A modified gradientâ€based algorithm for solving extended Sylvesterâ€conjugate matrix equations. Asian Journal of Control, 2018, 20, 228-235.	3.0	13
21	Spectral collocation method for solving continuous population models for single and interacting species by means of exponential Chebyshev approximation. International Journal of Biomathematics, 2018, 11, 1850109.	2.9	6
22	Double Ramadan Group Integral Transform: Definition and Properties with Applications to Partial Differential Equations. Applied Mathematics and Information Sciences, 2018, 12, 389-396.	0.5	1
23	An exponential Chebyshev second kind approximation for solving high-order ordinary differential equations in unbounded domains, with application to Dawson's integral. Journal of the Egyptian Mathematical Society, 2017, 25, 197-205.	1.2	12
24	An efficient hybrid method for solving fredholm integral equations using triangular functions. New Trends in Mathematical Sciences, 2017, 1, 213-224.	0.2	7
25	Numerical Solution of Volterra-Fredholm Integral Equations Using Hybrid Orthonormal Bernstein and Block-Pulse Functions. Asian Research Journal of Mathematics, 2017, 4, 1-14.	0.2	7
26	A new exponential Chebyshev operational matrix of derivatives for solving high-order ordinary differential equations in unbounded domains. Journal of Modern Methods in Numerical Mathematics, 2016, 7, 19.	0.3	3
27	Numerical solution of high-order linear integro differential equations with variable coefficients using two proposed schemes for rational Chebyshev functions. New Trends in Mathematical Sciences, 2016, 4, 22-22.	0.2	7
28	A New Bidiagonal Factorization of Totally Nonnegative Matrices. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8981-8987.	0.4	0
29	Solving the generalized coupled Sylvester matrix equations over generalized bisymmetric matrices. Transactions of the Institute of Measurement and Control, 2015, 37, 291-316.	1.7	5
30	Explicit and Iterative Methods for Solving the Matrix Equation AVâ€‰+â€‰BWâ€‰=â€‰EVFâ€‰+â€‰C. Asian Journal of Control, 2015, 17, 1070-1080.	3.0	4
31	Two iterative algorithms for the reflexive and Hermitian reflexive solutions of the generalized Sylvester matrix equation. JVC/Journal of Vibration and Control, 2015, 21, 483-492.	2.6	9
32	A Relaxed Gradient Based Algorithm for Solving Extended <scp>S</scp>ylvesterâ€Conjugate Matrix Equations. Asian Journal of Control, 2014, 16, 1334-1341.	3.0	17
33	Iterative algorithm for solving a class of general Sylvester-conjugate matrix equation $sum_{i = 1}^{s} A_{i}V + sum_{j = 1}^{t} B_{j}W = sum_{l = 1}^{m} E_{l}overline{V}F_{l} + C$. Journal of Applied Mathematics and Computing, 2014, 44, 99-118.	2.5	7
34	Finite Iterative Algorithm for Solving a Class of Complex Matrix Equation with Two Unknowns of General Form. Applied and Computational Mathematics, 2014, 3, 273.	0.3	3
35	An Approximate Analytical Solution of Higher-Order Linear Differential Equations with Variable Coefficients Using Improved Rational Chebyshev Collocation Method. Applied and Computational Mathematics, 2014, 3, 315.	0.3	8
36	New Iterative Method for Solving the Fornberg-Whitham Equation and Comparison with Homotopy Perturbation Transform Method. British Journal of Mathematics & Computer Science, 2014, 4, 1213-1227.	0.3	21

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37	Finite iterative algorithm for the solution of Sylvester-conjugate matrix equations<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>A</mml:mi><mml:mi>V</mml:mi><mml:mo>+</mml:mo><mml:mi>B</mml:mi><mml:mi>W</mml:mi><mml:mo accent="false"><mml:mrow><mml:mi>V</mml:mi></mml:mrow><mml:mo accent="true">Â¯</mml:mo></mml:mover><mml:mi>F</mml:mi><mml:mo>+</mml:mo><mml:mi>C</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:mi>A</mml:mi><mml:mi>V</mml:mi><mml:mo>=</mml:mo><mml:mi>E</mml:mi><mml:mi>W</mml:mi><mml:mi>D</mml:mi><mml:mo>+</mml:mo><mml:mi>G</mml:mi></mml:math>. Mathematical and Computer Modelling, 2013, 58, 1738-1754.	2.0	4
38	A projection algorithm for partial eigenvalue assignment problem using implicitly restarted Arnoldi method. JVC/Journal of Vibration and Control, 2013, 19, 367-375.	2.6	3
39	Finite Iterative Algorithm for Solving a Complex of Conjugate and Transpose Matrix Equation. Journal of Discrete Mathematics, 2013, 2013, 1-13.	0.4	3
40	Solving Linear and Nonlinear Fractional Differential Equations Using Spline Functions. Abstract and Applied Analysis, 2012, 2012, 1-9.	0.7	8
41	Numerical studies of the cubic non-linear Schrodinger equation. Nonlinear Dynamics, 2012, 67, 619-627.	5.2	14
42	An efficient offline signature identification method based on Fourier Descriptor and chain codes. International Journal of Biomedical Engineering and Technology, 2011, 5, 1.	0.2	17
43	A Hessenberg method for the numerical solutions to types of block Sylvester matrix equations. Mathematical and Computer Modelling, 2010, 52, 1716-1727.	2.0	9
44	Partial eigenvalue assignment problem of high order control systems using orthogonality relations. Computers and Mathematics With Applications, 2010, 59, 1918-1928.	2.7	21
45	The use of polynomial spline functions for the solution of system of second order delay differential equations. International Journal of Computer Mathematics, 2009, 86, 1167-1181.	1.8	4
46	On the explicit solutions of forms of the Sylvester and the Yakubovich matrix equations. Mathematical and Computer Modelling, 2009, 50, 1400-1408.	2.0	16
47	Quintic nonpolynomial spline solutions for fourth order two-point boundary value problem. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1105-1114.	3.3	31
48	High order accuracy nonpolynomial spline solutions for 2Î¼th order two point boundary value problems. Applied Mathematics and Computation, 2008, 204, 920-927.	2.2	18
49	A class of methods based on a septic non-polynomial spline function for the solution of sixth-order two-point boundary value problems. International Journal of Computer Mathematics, 2008, 85, 759-770.	1.8	16
50	Polynomial and nonpolynomial spline approaches to the numerical solution of second order boundary value problems. Applied Mathematics and Computation, 2007, 184, 476-484.	2.2	62
51	On the matrix equation XH=HX and the associated controllability problem. Applied Mathematics and Computation, 2007, 186, 844-859.	2.2	14
52	Periodic and Non Periodic (Complex) Behavior of a Model of Bioreactor With Cell Recycling. Journal of Mathematics and Statistics, 2007, 3, 1-11.	0.2	7
53	On the matrix equation. Applied Mathematics and Computation, 2006, 173, 992-1013.	2.2	22
54	Numerical solution of system of first-order delay differential equations using polynomial spline functions. International Journal of Computer Mathematics, 2006, 83, 925-937.	1.8	14

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55	Numerical treatment for the modified burgers equation. Mathematics and Computers in Simulation, 2005, 70, 90-98.	4.4	55
56	Iterative positive definite solutions of the two nonlinear matrix equations XÂ±ATXâˆ'2A=I. Applied Mathematics and Computation, 2005, 164, 189-200.	2.2	14
57	A numerical solution of the Burgersâ€™ equation using septic B-splines. Chaos, Solitons and Fractals, 2005, 26, 795-804.	5.1	44
58	The use of adomian decomposition method for solving the regularized long-wave equation. Chaos, Solitons and Fractals, 2005, 26, 747-757.	5.1	53
59	A numerical solution of the Burgersâ€™ equation using septic B-splines. Chaos, Solitons and Fractals, 2005, 26, 1249-1258.	5.1	38
60	Necessary and sufficient conditions for the existence of positive definite solutions of the matrix equationX+ATXâˆ'2A=I. International Journal of Computer Mathematics, 2005, 82, 865-870.	1.8	13
61	On the Existence of Extremal Positive Definite Solutions of a Kind of Matrix Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2005, 6, .	1.0	9
62	An algorithm for the multi-input complex eigenvalue assignment problem. Applied Mathematics and Computation, 2003, 140, 455-473.	2.2	2
63	On the existence of a positive definite solution of the matrix equation. International Journal of Computer Mathematics, 2001, 76, 331-338.	1.8	24
64	On the computation of frequency response matrices for systems in second-order form. International Journal of Computer Mathematics, 1994, 52, 211-217.	1.8	0
65	A numerical method based on hybrid orthonormal Bernstein and improved <scp>blockâ€pulse</scp> functions for solving Volterraâ€“Fredholm integral equations. Numerical Methods for Partial Differential Equations, 0, , .	3.6	3