

# Masoud Hajarian

## List of Publications by Year in descending order

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118  
papers

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citations

186209

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119  
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119  
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Solving system of nonlinear matrix equations over Hermitian positive definite matrices. <i>Linear and Multilinear Algebra</i> , 2023, 71, 597-630.	0.5	7
2	An efficient Gauss–Newton algorithm for solving regularized total least squares problems. <i>Numerical Algorithms</i> , 2022, 89, 1049-1073.	1.1	5
3	On the generalized AOR and CG iteration methods for a class of block two-by-two linear systems. <i>Numerical Algorithms</i> , 2022, 90, 669-685.	1.1	3
4	Triangular Decomposition of CP Factors of a Third-Order Tensor with Application to Solving Nonlinear Systems of Equations. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	1.1	3
5	Perron–Frobenius theory for some classes of nonnegative tensors in the max algebra. <i>Linear Algebra and Its Applications</i> , 2022, 641, 115-115.	0.4	1
6	An efficient inversion-free method for solving the nonlinear matrix equation $X^p + \sum_{i=1}^m A_i X^{-1} B_i X^{-1} = C$ . <i>Journal of the Franklin Institute</i> , 2022, 359, 3071-3089.	1.9	8
7	Newton-like and inexact Newton-like methods for a parameterized generalized inverse eigenvalue problem. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4217-4234.	1.2	0
8	Least-squares partially bisymmetric solutions of coupled Sylvester matrix equations accompanied by a prescribed submatrix constraint. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4297-4315.	1.2	6
9	Conjugate gradient-like algorithms for constrained operator equation related to quadratic inverse eigenvalue problems. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	1.0	1
10	Matrix LSQR algorithms for solving constrained quadratic inverse eigenvalue problem. <i>Filomat</i> , 2021, 35, 3105-3111.	0.2	0
11	BCR Algorithm for Solving Quadratic Inverse Eigenvalue Problems for Partially Bisymmetric Matrices. <i>Asian Journal of Control</i> , 2020, 22, 687-695.	1.9	3
12	Solving tensor E-eigenvalue problem faster. <i>Applied Mathematics Letters</i> , 2020, 100, 106020.	1.5	4
13	Partially doubly symmetric solutions of general Sylvester matrix equations. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 503-517.	1.1	2
14	Interval tensors and their application in solving multi-linear systems of equations. <i>Computers and Mathematics With Applications</i> , 2020, 79, 697-715.	1.4	9
15	An extension of the Cayley transform method for a parameterized generalized inverse eigenvalue problem. <i>Numerical Linear Algebra With Applications</i> , 2020, 27, e2327.	0.9	1
16	Determination of regularization parameter via solving a multi-objective optimization problem. <i>Applied Numerical Mathematics</i> , 2020, 156, 542-554.	1.2	7
17	Solving generalized inverse eigenvalue problems via L-BFGS-B method. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 1719-1746.	1.2	7
18	Conjugate gradient-like methods for solving general tensor equation with Einstein product. <i>Journal of the Franklin Institute</i> , 2020, 357, 4272-4285.	1.9	14

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19	Solving coupled tensor equations via higher order LSQR methods. <i>Filomat</i> , 2020, 34, 4419-4427.	0.2	0
20	An efficient algorithm based on Lanczos type of BCR to solve constrained quadratic inverse eigenvalue problems. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 418-431.	1.1	7
21	Reflexive periodic solutions of general periodic matrix equations. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 3527-3548.	1.2	10
22	Three types of biconjugate residual method for general periodic matrix equations over generalized bisymmetric periodic matrices. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 2708-2725.	1.1	4
23	Periodic conjugate direction algorithm for symmetric periodic solutions of general coupled periodic matrix equations. <i>Computers and Mathematics With Applications</i> , 2018, 75, 4151-4178.	1.4	12
24	Generalized reflexive and anti-reflexive solutions of the coupled Sylvester matrix equations via CD algorithm. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 343-356.	1.5	3
25	Finding solutions for periodic discrete-time generalized coupled Sylvester matrix equations via the generalized BCR method. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 647-656.	1.1	6
26	Matrix form of Biconjugate Residual Algorithm to Solve the Discrete-Time Periodic Sylvester Matrix Equations. <i>Asian Journal of Control</i> , 2018, 20, 49-56.	1.9	14
27	Convergence properties of BCR method for generalized Sylvester matrix equation over generalized reflexive and anti-reflexive matrices. <i>Linear and Multilinear Algebra</i> , 2018, 66, 1975-1990.	0.5	14
28	On the convergence of conjugate direction algorithm for solving coupled Sylvester matrix equations. <i>Computational and Applied Mathematics</i> , 2018, 37, 3077-3092.	1.3	2
29	Solving constrained quadratic inverse eigenvalue problem via conjugate direction method. <i>Computers and Mathematics With Applications</i> , 2018, 76, 2384-2401.	1.4	5
30	Computing symmetric solutions of general Sylvester matrix equations via Lanczos version of biconjugate residual algorithm. <i>Computers and Mathematics With Applications</i> , 2018, 76, 686-700.	1.4	19
31	Least squares solutions of quadratic inverse eigenvalue problem with partially bisymmetric matrices under prescribed submatrix constraints. <i>Computers and Mathematics With Applications</i> , 2018, 76, 1458-1475.	1.4	8
32	Biconjugate residual algorithm for solving general Sylvester-transpose matrix equations. <i>Filomat</i> , 2018, 32, 5307-5318.	0.2	2
33	GRADIENT BASED ITERATIVE ALGORITHM TO SOLVE GENERAL COUPLED DISCRETE-TIME PERIODIC MATRIX EQUATIONS OVER GENERALIZED REFLEXIVE MATRICES. <i>Mathematical Modelling and Analysis</i> , 2017, 21, 533-549.	0.7	10
34	Convergence of HS version of BCR algorithm to solve the generalized Sylvester matrix equation over generalized reflexive matrices. <i>Journal of the Franklin Institute</i> , 2017, 354, 2340-2357.	1.9	11
35	Solving the coupled Sylvester-like matrix equations via a new finite iterative algorithm. <i>Engineering Computations</i> , 2017, 34, 1446-1467.	0.7	7
36	Convergence analysis of the MCGNR algorithm for the least squares solution group of discrete-time periodic coupled matrix equations. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 29-42.	1.1	10

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37	Convergence Results of the Biconjugate Residual Algorithm for Solving Generalized Sylvester Matrix Equation. Asian Journal of Control, 2017, 19, 961-968.	1.9	9
38	Convergence analysis of generalized conjugate direction method to solve general coupled Sylvester discrete-time periodic matrix equations. International Journal of Adaptive Control and Signal Processing, 2017, 31, 985-1002.	2.3	8
39	Lanczos version of BCR algorithm for solving the generalised second-order Sylvester matrix equation. IET Control Theory and Applications, 2017, 11, 273-281.	1.2	11
40	New Finite Algorithm for Solving the Generalized Nonhomogeneous Yakubovich-Transpose Matrix Equation. Asian Journal of Control, 2017, 19, 164-172.	1.9	22
41	Applications of Methods of Numerical Linear Algebra in Engineering 2016. Mathematical Problems in Engineering, 2016, 2016, 1-2.	0.6	0
42	Convergence of a transition probability tensor of a higher-order Markov chain to the stationary probability vector. Numerical Linear Algebra With Applications, 2016, 23, 972-988.	0.9	19
43	Symmetric solutions of the coupled generalized Sylvester matrix equations via BCR algorithm. Journal of the Franklin Institute, 2016, 353, 3233-3248.	1.9	16
44	Extending the CGLS algorithm for least squares solutions of the generalized Sylvester-transpose matrix equations. Journal of the Franklin Institute, 2016, 353, 1168-1185.	1.9	37
45	Generalized conjugate direction algorithm for solving the general coupled matrix equations over symmetric matrices. Numerical Algorithms, 2016, 73, 591-609.	1.1	33
46	A fast and efficient two-grid method for solving d-dimensional poisson equations. Numerical Algorithms, 2016, 72, 483-537.	1.1	7
47	Solving the general Sylvester discrete-time periodic matrix equations via the gradient based iterative method. Applied Mathematics Letters, 2016, 52, 87-95.	1.5	40
48	Least Squares Solution of the Linear Operator Equation. Journal of Optimization Theory and Applications, 2016, 170, 205-219.	0.8	21
49	Extending the CGLS method for finding the least squares solutions of general discrete-time periodic matrix equations. Filomat, 2016, 30, 2503-2520.	0.2	8
50	Numerical Methods of Complex Valued Linear Algebraic System. Journal of Applied Mathematics, 2015, 2015, 1-2.	0.4	0
51	Developing BiCOR and CORS methods for coupled Sylvester-transpose and periodic Sylvester matrix equations. Applied Mathematical Modelling, 2015, 39, 6073-6084.	2.2	59
52	Finite algorithms for solving the coupled Sylvester-conjugate matrix equations over reflexive and Hermitian reflexive matrices. International Journal of Systems Science, 2015, 46, 488-502.	3.7	18
53	Matrix GPBiCG algorithms for solving the general coupled matrix equations. IET Control Theory and Applications, 2015, 9, 74-81.	1.2	50
54	The PMCGAOR and PMCSSOR methods for solving linear complementarity problems. Computational and Applied Mathematics, 2015, 34, 251-264.	1.3	3

#	ARTICLE	IF	CITATIONS
55	A Finite Iterative Method for Solving the General Coupled Discrete-Time Periodic Matrix Equations. Circuits, Systems, and Signal Processing, 2015, 34, 105-125.	1.2	14
56	Developing CGNE algorithm for the periodic discrete-time generalized coupled Sylvester matrix equations. Computational and Applied Mathematics, 2015, 34, 755-771.	1.3	13
57	Lower bounds for the product of the eigenvalues of the solutions to tihe matrix equations. Filomat, 2015, 29, 1179-1182.	0.2	1
58	A gradient-based iterative algorithm for generalized coupled Sylvester matrix equations over generalized centro-symmetric matrices. Transactions of the Institute of Measurement and Control, 2014, 36, 252-259.	1.1	8
59	Convergence of ADGI methods for solving systems of linear matrix equations. Engineering Computations, 2014, 31, 681-690.	0.7	3
60	Applications of Methods of Numerical Linear Algebra in Engineering. Mathematical Problems in Engineering, 2014, 2014, 1-2.	0.6	1
61	Extending LSQR methods to solve the generalized Sylvester-transpose and periodic Sylvester matrix equations. Mathematical Methods in the Applied Sciences, 2014, 37, 2017-2028.	1.2	23
62	Solving the system of generalized Sylvester matrix equations over the generalized centro-symmetric matrices. JVC/Journal of Vibration and Control, 2014, 20, 838-846.	1.5	4
63	Solving the system of linear operator equations over generalized bisymmetric matrices. Transactions of the Institute of Measurement and Control, 2014, 36, 541-550.	1.1	4
64	Developing Bi-CG and Bi-CR Methods to Solve Generalized Sylvester-transpose Matrix Equations. International Journal of Automation and Computing, 2014, 11, 25-29.	4.5	18
65	Solving the general coupled and the periodic coupled matrix equations via the extended QMRCGSTAB algorithms. Computational and Applied Mathematics, 2014, 33, 349-362.	1.3	11
66	Matrix form of the CGS method for solving general coupled matrix equations. Applied Mathematics Letters, 2014, 34, 37-42.	1.5	52
67	Matrix algorithms for solving the generalized coupled Sylvester and periodic coupled matrix equations. Transactions of the Institute of Measurement and Control, 2014, 36, 963-970.	1.1	4
68	Developing the CGLS algorithm for the least squares solutions of the general coupled matrix equations. Mathematical Methods in the Applied Sciences, 2014, 37, 2782-2798.	1.2	20
69	Modied AOR iterative methods to solve linear systems. JVC/Journal of Vibration and Control, 2014, 20, 661-669.	1.5	6
70	Extending the GPBiCG algorithm for solving the generalized Sylvester-transpose matrix equation. International Journal of Control, Automation and Systems, 2014, 12, 1362-1365.	1.6	12
71	Matrix iterative methods for solving the Sylvester-transpose and periodic Sylvester matrix equations. Journal of the Franklin Institute, 2013, 350, 3328-3341.	1.9	105
72	Efficient Iterative Solutions to General Coupled Matrix Equations. International Journal of Automation and Computing, 2013, 10, 481-486.	4.5	6

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73	The generalized QMRCGSTAB algorithm for solving Sylvester-transpose matrix equations. Applied Mathematics Letters, 2013, 26, 1013-1017.	1.5	36
74	A GENERALIZED PRECONDITIONED MHSS METHOD FOR A CLASS OF COMPLEX SYMMETRIC LINEAR SYSTEMS. Mathematical Modelling and Analysis, 2013, 18, 561-576.	0.7	44
75	Linear and Nonlinear Matrix Equations. Abstract and Applied Analysis, 2013, 2013, 1-2.	0.3	0
76	Matrix form of the Bi-CGSTAB method for solving the coupled Sylvester matrix equations. IET Control Theory and Applications, 2013, 7, 1828-1833.	1.2	24
77	Construction of an iterative method for solving generalized coupled Sylvester matrix equations. Transactions of the Institute of Measurement and Control, 2013, 35, 961-970.	1.1	22
78	The reflexive and Hermitian reflexive solutions of the generalized Sylvester-conjugate matrix equation. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2013, 20, .	0.1	6
79	The generalised Sylvester matrix equations over the generalised bisymmetric and skew-symmetric matrices. International Journal of Systems Science, 2012, 43, 1580-1590.	3.7	40
80	Fourth-order variants of Newton's method without second derivatives for solving nonlinear equations. Engineering Computations, 2012, 29, 356-365.	0.7	33
81	Solving coupled matrix equations over generalized bisymmetric matrices. International Journal of Control, Automation and Systems, 2012, 10, 905-912.	1.6	19
82	On the generalized reflexive and anti-reflexive solutions to a system of matrix equations. Linear Algebra and Its Applications, 2012, 437, 2793-2812.	0.4	43
83	Convergence of the descent Dai-Yuan conjugate gradient method for unconstrained optimization. JVC/Journal of Vibration and Control, 2012, 18, 1249-1253.	1.5	2
84	Iterative algorithms for the generalized centrosymmetric and central anti-symmetric solutions of general coupled matrix equations. Engineering Computations, 2012, 29, 528-560.	0.7	52
85	Two iterative algorithms for solving coupled matrix equations over reflexive and anti-reflexive matrices. Computational and Applied Mathematics, 2012, 31, 353-371.	1.0	10
86	Corrigendum to "Improving preconditioned SOR-type iterative methods for L-matrices, Int. J. Numer. Meth. Biomed. Engng., 27 (2011) 774-784". International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 999-999.	1.0	0
87	On derivative free cubic convergence iterative methods for solving nonlinear equations. Computational Mathematics and Mathematical Physics, 2011, 51, 513-519.	0.2	12
88	Solving the generalized sylvester matrix equation $\sum_{i=1}^p A_i X B_i + \sum_{j=1}^q C_j Y D_j = E$ over reflexive and anti-reflexive matrices. International Journal of Control, Automation and Systems, 2011, 9, 118-124.	1.6	27
89	The generalized centro-symmetric and least squares generalized centro-symmetric solutions of the matrix equation $AYB + CYD = E$ . Mathematical Methods in the Applied Sciences, 2011, 34, 1562-1579.	1.2	47
90	On some cubic convergence iterative formulae without derivatives for solving nonlinear equations. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 722-731.	1.0	10

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91	Improving preconditioned SOR-type iterative methods for L-matrices. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 774-784.	1.0	9
92	Two class of synchronous matrix multisplitting schemes for solving linear complementarity problems. Journal of Computational and Applied Mathematics, 2011, 235, 4325-4336.	1.1	10
93	Two algorithms for finding the Hermitian reflexive and skew-Hermitian solutions of Sylvester matrix equations. Applied Mathematics Letters, 2011, 24, 444-449.	1.5	58
94	Analysis of an iterative algorithm to solve the generalized coupled Sylvester matrix equations. Applied Mathematical Modelling, 2011, 35, 3285-3300.	2.2	116
95	On the generalized bisymmetric and skew-symmetric solutions of the system of generalized Sylvester matrix equations. Linear and Multilinear Algebra, 2011, 59, 1281-1309.	0.5	43
96	SSHI methods for solving general linear matrix equations. Engineering Computations, 2011, 28, 1028-1043.	0.7	28
97	The reflexive solution to the system of Sylvester-conjugate matrix equations. Asian Journal of Control, 2011, , n/a-n/a.	1.9	0
98	Asynchronous Multisplitting GAOR Method and Asynchronous Multisplitting SSOR Method for Systems of Weakly Nonlinear Equations. Mediterranean Journal of Mathematics, 2010, 7, 209-223.	0.4	2
99	The general coupled matrix equations over generalized bisymmetric matrices. Linear Algebra and Its Applications, 2010, 432, 1531-1552.	0.4	156
100	An efficient algorithm for solving general coupled matrix equations and its application. Mathematical and Computer Modelling, 2010, 51, 1118-1134.	2.0	49
101	Computing matrix functions using mixed interpolation methods. Mathematical and Computer Modelling, 2010, 52, 826-836.	2.0	5
102	An iterative method for solving the generalized coupled Sylvester matrix equations over generalized bisymmetric matrices. Applied Mathematical Modelling, 2010, 34, 639-654.	2.2	133
103	Matrix equations over $\mathbb{R}$ and $\mathbb{C}$ and $S$ -symmetric. Computers and Mathematics With Applications, 2010, 59, 3583-3594.	1.4	13
104	Some derivative free quadratic and cubic convergence iterative formulas for solving nonlinear equations. Computational and Applied Mathematics, 2010, 29, .	1.0	41
105	The Reflexive and Anti-Reflexive Solutions of a Linear Matrix Equation and Systems of Matrix Equations. Rocky Mountain Journal of Mathematics, 2010, 40, .	0.2	41
106	New iterative method for solving non-linear equations with fourth-order convergence. International Journal of Computer Mathematics, 2010, 87, 834-839.	1.0	29
107	On the reflexive and anti-reflexive solutions of the generalised coupled Sylvester matrix equations. International Journal of Systems Science, 2010, 41, 607-625.	3.7	29
108	Convergence of SSOR methods for linear complementarity problems. Operations Research Letters, 2009, 37, 219-223.	0.5	22

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109	Finite iterative algorithms for the reflexive and anti-reflexive solutions of the matrix equation $AX + XA = B$ . Mathematical and Computer Modelling, 2009, 49, 1937-1959.	2.0	78
110	A lower bound for the product of eigenvalues of solutions to matrix equations. Applied Mathematics Letters, 2009, 22, 1786-1788.	1.5	19
111	Determination of a matrix function using the divided difference method of Newton and the interpolation technique of Hermite. Journal of Computational and Applied Mathematics, 2009, 231, 67-81.	1.1	7
112	Efficient iterative method for solving the second-order Sylvester matrix equation $EVF^2 + AVF + CV = BW$ . IET Control Theory and Applications, 2009, 3, 1401-1408.	1.2	63
113	ON THE REFLEXIVE SOLUTIONS OF THE MATRIX EQUATION $AXB + CYD = E$ . Bulletin of the Korean Mathematical Society, 2009, 46, 511-519.	0.3	24
114	An iterative algorithm for the reflexive solutions of the generalized coupled Sylvester matrix equations and its optimal approximation. Applied Mathematics and Computation, 2008, 202, 571-588.	1.4	132
115	An iterative algorithm for solving a pair of matrix equations $AX + XA = B$ and $Y + YB = E$ over generalized centro-symmetric matrices. Computers and Mathematics With Applications, 2008, 56, 3346-3360.	1.4	78
116	Convergence analysis of the MCGNR algorithm for the least squares solution group of discrete-time periodic coupled matrix equations. Transactions of the Institute of Measurement and Control, 0, , 014233121360025.	1.1	0
117	A robust meta-heuristic adaptive Bi-CGSTAB algorithm to online estimation of a three DoF state-space model in the presence of disturbance and uncertainty. International Journal of Systems Science, 0, , 1-18.	3.7	0
118	Modified block product preconditioner for a class of complex symmetric linear systems. Linear and Multilinear Algebra, 0, , 1-15.	0.5	2