Hossein Rahami

List of Publications by Year
in descending order

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56	851	471509	526287
papers	citations	17	27
		h-index	g-index

57	57	57	373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A heuristic swarm-based optimization method using multi-variate normal distributions with self-adaptive variance matrices. Structures, 2022, 36, 372-391.	3.6	1
2	Truss optimization using eigenvectors of the covariance matrix. Engineering With Computers, 2021, 37, 2207.	6.1	7
3	Analysis of Shear Wall Systems Using Plane Stress Elements. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 27-34.	1.9	1
4	A fast-convergent approach for damage assessment using CMA-ES optimization algorithm and modal parameters. Journal of Civil Structural Health Monitoring, 2020, 10, 497-511.	3.9	15
5	Static Analysis of Near-Regular Skeletal Structures: Additional Nodes. Studies in Systems, Decision and Control, 2020, , 87-122.	1.0	0
6	Static Analysis of Near-Regular Skeletal Structures: Additional Members. Studies in Systems, Decision and Control, 2020, , 43-86.	1.0	0
7	Basic Concepts and Definitions of Symmetry and Regularity. Studies in Systems, Decision and Control, 2020, , 11-41.	1.0	0
8	Global Near-Regular Mechanical Systems. Studies in Systems, Decision and Control, 2020, , 247-263.	1.0	0
9	Determining Structural Resonance Frequency via Low-Cost Micro-Electromechanical Systems. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 583-590.	1.9	2
10	Structural Health Monitoring for Multi-story Shear Frames Based on Signal Processing Approach. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2018, 42, 287-303.	1.9	7
11	State-of-the-Art Solution of Capacitance Resistance Model by Considering Dynamic Time Constants as a Realistic Assumption. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	9
12	A mesh free method using rectangular pre-solved domains using Kronecker products. Mechanics Based Design of Structures and Machines, 2017, 45, 92-110.	4.7	5
13	Analysis and reanalysis of mechanical systems: concept of global near-regularity. Acta Mechanica, 2017, 228, 1445-1456.	2.1	8
14	Analysis of repetitive and near-repetitive structures by transformation to equivalent circulant structures. Engineering Computations, 2017, 34, 343-363.	1.4	4
15	A Numerical Method for Eigensolution of Near-Regular Structural and Mechanical Systems. Periodica Polytechnica: Civil Engineering, 2016, 60, 247-255.	0.6	1
16	A numerical solution for Laplace and Poisson's equations using geometrical transformation and graph products. Applied Mathematical Modelling, 2016, 40, 7768-7783.	4.2	9
17	Analytical Solution of Laplace and Poisson Equations Using Conformal Mapping and Kronecker Products. International Journal of Civil Engineering, 2016, 14, 369-377.	2.0	1
18	An efficient finite element solution using a large pre-solved regular element. Acta Mechanica, 2016, 227, 1331-1349.	2.1	4

#	Article	IF	Citations
19	An efficient method for seismic analysis of structures. Engineering Computations, 2015, 32, 1708-1721.	1.4	2
20	Swift Analysis for Size and Geometry Optimization of Structures. Advances in Structural Engineering, 2015, 18, 365-380.	2.4	8
21	Efficient finite element solution of regular and near-regular systems using graph products. Acta Mechanica, 2015, 226, 2393-2405.	2.1	5
22	New developments in the optimal analysis of regular and near-regular structures: decomposition, graph products, force method. Acta Mechanica, 2015, 226, 665-681.	2.1	20
23	Determination of Hysteretic Behavior of Steel End-Plate Beam-to-Column Connection with Mechanical and Neural Network Modeling. Arabian Journal for Science and Engineering, 2014, 39, 7661-7671.	1.1	15
24	Analysis of Irregular Structures Composed of Regular and Irregular Parts Using Graph Products. Journal of Computing in Civil Engineering, 2014, 28, .	4.7	12
25	Developing an algorithm for reconstruction blocky systems in discontinuous media: threeâ€dimensional analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 661-684.	3.3	18
26	Analysis of structures convertible to repeated structures using graph products. Computers and Structures, 2013, 125, 153-163.	4.4	24
27	Analysis of structures transformable to circulant form using U-transformation and Kronecker products. Acta Mechanica, 2013, 224, 1625-1642.	2.1	1
28	Analysis of Regular Structures with Member Irregularity Using the Equilibrium Equations and the Singular Value Decomposition. Advances in Structural Engineering, 2013, 16, 823-843.	2.4	7
29	Seismic design of steel frames using multi-objective optimization. Structural Engineering and Mechanics, 2013, 45, 211-232.	1.0	18
30	Analysis of nearâ€regular structures using the force method. Engineering Computations, 2012, 30, 21-48.	1.4	14
31	Static and modal analyses of structures with different repeated patterns. Advances in Engineering Software, 2012, 51, 1-9.	3.8	9
32	Geometrically nonlinear analysis of circulant structures using an efficient eigensolution method. Acta Mechanica, 2012, 223, 2167-2182.	2.1	2
33	Block circulant matrices and applications in free vibration analysis of cyclically repetitive structures. Acta Mechanica, 2011, 217, 51-62.	2.1	43
34	Developing an algorithm for reconstruction of blocky systems in discontinuous media: two-dimensional analysis. Geomechanics and Geoengineering, 2011, 6, 171-183.	1.8	7
35	Improved group theoretic method using graph products for the analysis of symmetric-regular structures. Acta Mechanica, 2010, 210, 265-289.	2.1	22
36	An efficient analysis of repetitive structures generated by graph products. International Journal for Numerical Methods in Engineering, 2010, 84, 108-126.	2.8	33

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37	Eigenvalues of the adjacency and Laplacian matrices for modified regular structural models. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1836-1855.	2.1	9
38	Vibration analysis of regular structures by graph products: Cable networks. Computers and Structures, 2010, 88, 588-601.	4.4	23
39	Forced vibration of symmetric structures. Communications in Numerical Methods in Engineering, 2008, 24, 1393-1406.	1.3	4
40	Factorization for efficient solution of eigenproblems of adjacency and Laplacian matrices for graph products. International Journal for Numerical Methods in Engineering, 2008, 75, 58-82.	2.8	21
41	Sizing, geometry and topology optimization of trusses via force method and genetic algorithm. Engineering Structures, 2008, 30, 2360-2369.	5.3	147
42	Topology and graph products; eigenproblems in optimal structural analysis. Communications in Numerical Methods in Engineering, 2007, 24, 929-945.	1.3	12
43	Compound matrix block diagonalization for efficient solution of eigenproblems in structural mechanics. Acta Mechanica, 2007, 188, 155-166.	2.1	31
44	Tri-diagonal and penta-diagonal block matrices for efficient eigensolutions of problems in structural mechanics. Acta Mechanica, 2007, 192, 77-87.	2.1	17
45	Nonlinear analysis and optimal design of structures via force method and genetic algorithm. Computers and Structures, 2006, 84, 770-778.	4.4	39
46	Analysis, design and optimization of structures using force method and genetic algorithm. International Journal for Numerical Methods in Engineering, 2006, 65, 1570-1584.	2.8	37
47	Block diagonalization of adjacency and Laplacian matrices for graph product; applications in structural mechanics. International Journal for Numerical Methods in Engineering, 2006, 68, 33-63.	2.8	51
48	Special decompositions for eigenproblems in structural mechanics. Communications in Numerical Methods in Engineering, 2006, 22, 943-953.	1.3	3
49	New development of artificial record generation by wavelet theory. Structural Engineering and Mechanics, 2006, 22, 185-195.	1.0	14
50	A unified method for eigendecomposition of graph products. Communications in Numerical Methods in Engineering, 2005, 21, 377-388.	1.3	21
51	New canonical forms for analytical solution of problems in structural mechanics. Communications in Numerical Methods in Engineering, 2005, 21, 499-513.	1.3	13
52	An efficient method for decomposition of regular structures using graph products. International Journal for Numerical Methods in Engineering, 2004, 61, 1797-1808.	2.8	50
53	A new spectral method for nodal ordering of regular space structures. Finite Elements in Analysis and Design, 2004, 40, 1931-1945.	3.2	18
54	Algebraic Graph Theory for Sparse Flexibility Matrices. Mathematical Modelling and Algorithms, 2003, 2, 171-182.	0.5	2

#	Article	IF	Citations
55	An Efficient Algorithm for Embedding Nonplanar Graphs in Planes. Mathematical Modelling and Algorithms, 2002, 1, 257-268.	0.5	1
56	Static and Dynamic Analysis of Cracked Concrete Beams Using Experimental Study and Finite Element Analysis. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	4