Nikos D Lagaros

List of Publications by Year
in descending order

56	2,616	172457	189892
papers	citations	29 h-index	50 g-index

56	56	56	1626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimum topological bracing design of tall steel frames subjected to dynamic loading. Computers and Structures, 2022, 259, 106705.	4.4	4
2	The Mosaic of Metaheuristic Algorithms in Structural Optimization. Archives of Computational Methods in Engineering, 2022, 29, 5457-5492.	10.2	15
3	DL-SCALE: a novel deep learning-based model order upscaling scheme for solving topology optimization problems. Neural Computing and Applications, 2021, 33, 7125-7144.	5.6	8
4	Neural Network-Based Prediction: The Case of Reinforced Concrete Members under Simple and Complex Loading. Applied Sciences (Switzerland), 2021, 11, 4975.	2.5	7
5	Accelerated topology optimization by means of deep learning. Structural and Multidisciplinary Optimization, 2020, 62, 1185-1212.	3.5	59
6	Damage Index-Based Lower Bound Structural Design. Frontiers in Built Environment, 2018, 4, .	2.3	2
7	Life-Cycle Cost Model and Design Optimization of Base-Isolated Building Structures. Frontiers in Built Environment, 2016, 2, .	2.3	9
8	Life cycle cost assessment of masonry structures. Structure and Infrastructure Engineering, 2016, 12, 535-550.	3.7	0
9	Generation of artificial accelerograms for efficient life-cycle cost analysis of structures. Engineering Structures, 2015, 88, 138-153.	5.3	12
10	Optimum layout design of onshore wind farms considering stochastic loading. Advances in Engineering Software, 2015, 88, 8-20.	3.8	19
11	Time History Seismic Analysis. , 2015, , 3751-3767.		3
12	Risk assessment of steel and steel-concrete composite 3D buildings considering sources of uncertainty. Earthquake and Structures, 2014, 6, 19-43.	1.0	8
13	Numerical calibration of damage indices. Advances in Engineering Software, 2014, 70, 36-50.	3.8	7
14	A general purpose real-world structural design optimization computing platform. Structural and Multidisciplinary Optimization, 2014, 49, 1047-1066.	3.5	52
15	Reliability analysis of geostructures based on metaheuristic optimization. Applied Soft Computing Journal, 2014, 22, 544-565.	7.2	20
16	Lifeâ€cycle cost assessment of midâ€rise and highâ€rise steel and steelâ€“reinforced concrete composite minimum cost building designs. Structural Design of Tall and Special Buildings, 2013, 22, 954-974.	1.9	21
17	Time History Seismic Analysis. , 2013, , 1-19.		3
18	The effect of uncertainties in seismic loss estimation of steel and reinforced concrete composite buildings. Structure and Infrastructure Engineering, 2013, 9, 546-566.	3.7	12

#	Article	IF	Citations
19	Performance-based optimum design of structures with vulnerability objectives. International Journal of Reliability and Safety, 2013, 7, 75.	0.2	1
20	Evolution Strategies-Based Metaheuristics in Structural Design Optimization. , 2013, , 79-102.		9
21	Applied soft computing for optimum design of structures. Structural and Multidisciplinary Optimization, 2012, 45, 787-799.	3.5	35
22	Neural network based prediction schemes of the non-linear seismic response of 3D buildings. Advances in Engineering Software, 2012, 44, 92-115.	3.8	109
23	Accelerated subset simulation with neural networks for reliability analysis. Computer Methods in Applied Mechanics and Engineering, 2012, 223-224, 70-80.	6.6	158
24	An overview to structural seismic design optimisation frameworks. Computers and Structures, 2011, 89, 1155-1165.	4.4	70
25	Life-cycle cost assessment of optimally designed reinforced concrete buildings under seismic actions. Reliability Engineering and System Safety, 2011, 96, 1311-1331.	8.9	102
26	Evaluation of ASCE-41, ATC-40 and N2 static pushover methods based on optimally designed buildings. Soil Dynamics and Earthquake Engineering, 2011, 31, 77-90.	3.8	27
27	Structural Optimization: An Assessment Approach of Design Procedures Against Earthquake Hazard. , 2011, , 185-209.		0
28	Neurocomputing strategies for solving reliabilityâ€robust design optimization problems. Engineering Computations, 2010, 27, 819-840.	1.4	36
29	The impact of the earthquake incident angle on the seismic loss estimation. Engineering Structures, 2010, 32, 1577-1589.	5.3	39
30	Building design based on energy dissipation: a critical assessment. Bulletin of Earthquake Engineering, 2010, 8, 1375-1396.	4.1	31
31	Multicomponent incremental dynamic analysis considering variable incident angle. Structure and Infrastructure Engineering, 2010, 6, 77-94.	3.7	69
32	Probabilistic seismic slope stability assessment of geostructures. Structure and Infrastructure Engineering, 2010, 6, 179-191.	3.7	38
33	Neural Networks: Some Successful Applications in Computational Mechanics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 317-336.	0.6	0
34	Computationally efficient seismic fragility analysis of geostructures. Computers and Structures, 2009, 87, 1195-1203.	4.4	75
35	Simulating the seismic response of embankments via artificial neural networks. Advances in Engineering Software, 2009, 40, 640-651.	3.8	29
36	Optimum design of steel structures with web openings. Engineering Structures, 2008, 30, 2528-2537.	5.3	64

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37	Innovative seismic design optimization with reliability constraints. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 28-41.	6.6	38
38	Vulnerability analysis of large concrete dams using the continuum strong discontinuity approach and neural networks. Structural Safety, 2008, 30, 217-235.	5.3	38
39	Reliability based robust design optimization of steel structures. International Journal for Simulation and Multidisciplinary Design Optimization, 2007, 1, 19-29.	1.1	25
40	Robust Performance-Based Design Optimization of Steel Moment Resisting Frames. Journal of Earthquake Engineering, 2007, 11, 752-772.	2.5	11
41	Robust seismic design optimization of steel structures. Structural and Multidisciplinary Optimization, 2007, 33, 457-469.	3.5	49
42	Life-cycle cost analysis of design practices for RC framed structures. Bulletin of Earthquake Engineering, 2007, 5, 425-442.	4.1	33
43	Optimum design of shell structures with random geometric, material and thickness imperfections. International Journal of Solids and Structures, 2006, 43, 6948-6964.	2.7	46
44	Structural optimization: A tool for evaluating seismic design procedures. Engineering Structures, 2006, 28, 1623-1633.	5.3	46
45	Performance-based multiobjective optimum design of steel structures considering life-cycle cost. Structural and Multidisciplinary Optimization, 2006, 32, 1-11.	3.5	112
46	Assessment of seismic design procedures based on the total cost. Earthquake Engineering and Structural Dynamics, 2006, 35, 1381-1401.	4.4	25
47	Performance-based earthquake engineering using structural optimisation tools. International Journal of Reliability and Safety, 2006, 1, 59.	0.2	15
48	An enhanced hybrid method for the simulation of highly skewed non-Gaussian stochastic fields. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 4824-4844.	6.6	32
49	Multi-objective design optimization using cascade evolutionary computations. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3496-3515.	6.6	45
50	Soft computing methodologies for structural optimization. Applied Soft Computing Journal, 2003, 3, 283-300.	7.2	41
51	Reliability-based structural optimization using neural networks and Monte Carlo simulation. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3491-3507.	6.6	413
52	OPTIMUM DESIGN OF SPACE FRAMES UNDER SEISMIC LOADING. International Journal of Structural Stability and Dynamics, 2001, 01, 105-123.	2.4	13
53	Optimization of Large-Scale 3-D Trusses Using Evolution Strategies and Neural Networks. International Journal of Space Structures, 1999, 14, 211-223.	0.3	46
54	STRUCTURAL SHAPE OPTIMIZATION USING EVOLUTION STRATEGIES. Engineering Optimization, 1999, 31, 515-540.	2.6	46

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55	Structural optimization using evolution strategies and neural networks. Computer Methods in Applied Mechanics and Engineering, 1998, 156, 309-333.	6.6	171
56	Structural reliability analyis of elastic-plastic structures using neural networks and Monte Carlo simulation. Computer Methods in Applied Mechanics and Engineering, 1996, 136, 145-163.	6.6	218