Mohamed Soliman

List of Publications by Year
in descending order

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Version: 2024-02-01

41 papers	1,015 citations	430754 18 h-index	454834 30 g-index
45 all docs	45 docs citations	45 times ranked	761 citing authors

#	Article	IF	Citations
1	Seismic fragility analysis using nonlinear autoregressive neural networks with exogenous input. Structure and Infrastructure Engineering, 2022, 18, 1251-1265.	2.0	8
2	Reliability assessment of connections with slip-critical bolts and fillet welds in combination. Journal of Constructional Steel Research, 2022, 188, 107036.	1.7	6
3	Performance assessment of prestressed concrete bridge girders using fiber optic sensors and artificial neural networks. Structure and Infrastructure Engineering, 2021, 17, 605-619.	2.0	19
4	Integrated Framework for Assessment of Time-Variant Flood Fragility of Bridges Using Deep Learning Neural Networks. Journal of Infrastructure Systems, 2021, 27, .	1.0	20
5	A probabilistic framework for life-cycle cost analysis of bridge decks constructed with different reinforcement alternatives. Engineering Structures, 2021, 245, 112879.	2.6	8
6	Damage evaluation of prestressed beams under cyclic loading based on acoustic emission monitoring. Construction and Building Materials, 2020, 255, 119235.	3.2	9
7	Integrated Framework for Quantifying the Effect of Climate Change on the Risk of Bridge Failure Due to Floods and Flood-Induced Scour. Journal of Bridge Engineering, 2019, 24, .	1.4	22
8	Life-Cycle Cost Analysis of Reinforced Concrete Bridge Decks with Conventional and Corrosion Resistant Reinforcement. MATEC Web of Conferences, 2019, 271, 01009.	0.1	3
9	Structural Deterioration Mechanisms. , 2019, , 1-31.		2
10	An Integrated Framework for Seismic Risk Assessment of Reinforced Concrete Buildings Based on Structural Health Monitoring. , 2019, , .		1
11	Deep Learning Based Framework for Long-term Management of Bridges Considering Climate Change Effects. IABSE Symposium Report, 2019, , .	0.0	1
12	Optimal Risk-Based Management of Coastal Bridges Vulnerable to Hurricanes. Journal of Infrastructure Systems, 2017, 23, .	1.0	34
13	Fatigue Damage in Railway Steel Bridges: Approach Based on a Dynamic Train-Bridge Coupled Model. Journal of Bridge Engineering, 2017, 22, .	1.4	12
14	Redundancy of Structures and Fatigue of Bridges and Ships Under Uncertainty. , 2017, , 1541-1565.		0
15	Nonlinear Prediction Surfaces for Estimating the Structural Response of Naval Vessels. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 21-28.	0.3	0
16	Redundancy of Structures and Fatigue of Bridges and Ships Under Uncertainty. , 2016, , 1-25.		1
17	Prediction of structural response of naval vessels based on available structural health monitoring data. Ocean Engineering, 2016, 125, 295-307.	1.9	24
18	Maintenance and Operation of Infrastructure Systems: Review. Journal of Structural Engineering, 2016, 142, .	1.7	81

#	Article	IF	Citations
19	Life-cycle of structural systems: recent achievements and future directions. Structure and Infrastructure Engineering, 2016, 12, 1-20.	2.0	200
20	A probabilistic approach for optimizing inspection, monitoring, and maintenance actions against fatigue of critical ship details. Structural Safety, 2016, 60, 91-101.	2.8	53
21	Fatigue Reliability Assessment of Railway Bridges Based on Probabilistic Dynamic Analysis of a Coupled Train-Bridge System. Journal of Structural Engineering, 2016, 142, .	1.7	25
22	Redundancy of Structures and Fatigue of Bridges and Ships Under Uncertainty. , 2015, , 1-25.		0
23	Life-Cycle Cost Evaluation of Conventional and Corrosion-Resistant Steel for Bridges. Journal of Bridge Engineering, 2015, 20, .	1.4	45
24	Geometry control simulation for long-span steel cable-stayed bridges based on geometrically nonlinear analysis. Engineering Structures, 2015, 90, 71-82.	2.6	21
25	Bridge stress calculation based on the dynamic response of coupled trainâ€“bridge system. Engineering Structures, 2015, 99, 334-345.	2.6	49
26	Fatigue reliability and service life prediction of aluminum naval ship details based on monitoring data. Structural Health Monitoring, 2015, 14, 3-19.	4.3	32
27	Estimation of Cable Tension Force Independent of Complex Boundary Conditions. Journal of Engineering Mechanics - ASCE, 2015, 141, .	1.6	36
28	Simulating the construction process of steel-concrete composite bridges. Steel and Composite Structures, 2015, 18, 1239-1258.	1.3	5
29	Damage to Ship Structures Under Uncertainty: Evaluation and Prediction. , 2015, , 565-588.		2
30	Practical Applications of Life-Cycle Considerations in Sustainable Development of Infrastructure. , 2014, , .		2
31	Optimization of Life-Cycle Maintenance of Deteriorating Bridges with Respect to Expected Annual System Failure Rate and Expected Cumulative Cost. Journal of Structural Engineering, 2014, 140, .	1.7	52
32	A General Framework for Probabilistic Risk-Based Optimization of Life-Cycle Management of Infrastructure Systems under Gradual and Sudden Deterioration. , 2014, , .		1
33	Inspection, Monitoring, and Maintenance of Infrastructure Systems in a Life-cycle Context: Emphasis on Bridges. IABSE Symposium Report, 2014, , .	0.0	0
34	Reliability Quantification of High-Speed Naval Vessels Based on SHM Data. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 99-106.	0.3	1
35	Probabilistic optimum inspection planning of steel bridges with multiple fatigue sensitive details. Engineering Structures, 2013, 49, 996-1006.	2.6	44
36	Generalized Probabilistic Framework for Optimum Inspection and Maintenance Planning. Journal of Structural Engineering, 2013, 139, 435-447.	1.7	112

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37	Reliability and Remaining Life Assessment of Fatigue Critical Steel Structures: Integration of Inspection and Monitoring Information. , 2013, , .		4
38	Fatigue Assessment and Service Life Prediction of Existing Steel Bridges by Integrating SHM into a Probabilistic Bilinear S-N Approach. Journal of Structural Engineering, 2013, 139, 1728-1740.	1.7	31
39	Damage to Ship Structures Under Uncertainty: Evaluation and Prediction. , 2013, , 1-22.		2
40	Probabilistic Fatigue Life Estimation of Steel Bridges by Using a Bilinear S-N Approach. Journal of Bridge Engineering, 2012, 17, 58-70.	1.4	43
41	A framework for quantifying fatigue deterioration of ship structures under changing climate conditions. Ships and Offshore Structures, 0, , 1-16.	0.9	1