

Wei Song

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36

papers

431

citations

11

h-index

20

g-index

47

ext. papers

555

ext. citations

4.3

avg, IF

4.62

L-index

#	Paper	IF	Citations
36	Numerical modeling and parametric study of hybrid fiber-rebar reinforced concrete tunnel linings. <i>Engineering Structures</i> , 2022 , 251, 113565	4.7	0
35	Investigation of the structural effect induced by stagger joints in segmental tunnel linings: Numerical explanation via macro-level structural modeling. <i>Tunnelling and Underground Space Technology</i> , 2022 , 120, 104284	5.7	0
34	Crack segmentation through deep convolutional neural networks and heterogeneous image fusion. <i>Automation in Construction</i> , 2021 , 125, 103605	9.6	10
33	Deep learning-based roadway crack classification with heterogeneous image data fusion. <i>Structural Health Monitoring</i> , 2021 , 20, 1274-1293	4.4	6
32	Bayesian Identification of a Nonlinear Energy Sink Device: Method Comparison. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 173-175	0.3	1
31	Robust Image-Based Surface Crack Detection Using Range Data. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04019054	5	11
30	Identification of an experimental nonlinear energy sink device using the unscented Kalman filter. <i>Mechanical Systems and Signal Processing</i> , 2020 , 136, 106512	7.8	5
29	Concrete roadway crack segmentation using encoder-decoder networks with range images. <i>Automation in Construction</i> , 2020 , 120, 103403	9.6	10
28	Conceptual Study of a Real-Time Hybrid Simulation Framework for Monopile Offshore Wind Turbines Under Wind and Wave Loads. <i>Frontiers in Built Environment</i> , 2020 , 6,	2.2	6
27	Deep learning-based roadway crack classification using laser-scanned range images: A comparative study on hyperparameter selection. <i>Automation in Construction</i> , 2020 , 114, 103171	9.6	30
26	Global sensitivity analysis for the design of nonlinear identification experiments. <i>Nonlinear Dynamics</i> , 2019 , 98, 375-394	5	6
25	Real-time aerodynamics hybrid simulation: Wind-induced effects on a reduced-scale building equipped with full-scale dampers. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 190, 1-9	3.7	8
24	A real-time hybrid aeroelastic simulation platform for flexible wings. <i>Aerospace Science and Technology</i> , 2019 , 95, 105513	4.9	8
23	Design and Performance Evaluation of an Optimal Discrete-Time Feedforward Controller for Servo-Hydraulic Compensation. <i>Journal of Engineering Mechanics - ASCE</i> , 2018 , 144, 04017163	2.4	6
22	Environmental-effects-embedded model updating method considering environmental impacts. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2116	4.5	7
21	Investigation of the structural effect induced by stagger joints in segmental tunnel linings: Direct insight from mechanical behaviors of longitudinal and circumferential joints. <i>Tunnelling and Underground Space Technology</i> , 2018 , 71, 271-291	5.7	26
20	Multi-unit rolling isolation system arrays: Analytical model and sensitivity analysis. <i>Engineering Structures</i> , 2018 , 173, 656-668	4.7	8

19	Generalized minimum variance unbiased joint input-state estimation and its unscented scheme for dynamic systems with direct feedthrough. <i>Mechanical Systems and Signal Processing</i> , 2018 , 99, 886-920	7.8	28
18	Development and testing of a bridge weigh-in-motion method considering nonconstant vehicle speed. <i>Engineering Structures</i> , 2017 , 152, 709-726	4.7	17
17	Experimental and analytical investigation of end zone cracking in BT-78 girders. <i>Engineering Structures</i> , 2017 , 151, 503-517	4.7	7
16	A Discrete-Time Feedforward-Feedback Compensator for Real-Time Hybrid Simulation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 223-226	0.3	1
15	A Finite Element Model Updating Method Considering Environmental Impacts. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 313-324	0.3	
14	Discrete-Time Compensation Technique for Real-Time Hybrid Simulation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 351-358	0.3	3
13	Variation of modal properties induced by combined effects of temperature and boundary condition 2015 ,		1
12	Nonlinear Aeroelastic Modeling and Analysis of Flexible Wind Turbine Blades 2015 ,		1
11	Suggestions for future research, development and application of bridge health monitoring systems 2015 , 617-618		6
10	Real-Time Dynamic Model Updating of a Hysteretic Structural System. <i>Journal of Structural Engineering</i> , 2014 , 140, 04013082	3	35
9	Development of a cyber-physical experimental platform for real-time dynamic model updating. <i>Mechanical Systems and Signal Processing</i> , 2013 , 37, 388-402	7.8	18
8	Optimal feedback design for nonlinear stochastic systems using the pseudospectral method. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 55, 70-78	2.8	5
7	Application of Nonlinear Model Updating for a Reinforced Concrete Shear Wall. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 635-649	2.4	19
6	Application of nonlinear observers in hysteretic model updating 2010 ,		4
5	A parameter subset selection method using residual force vector for detecting multiple damage locations. <i>Structural Control and Health Monitoring</i> , 2010 , 17, 48-67	4.5	18
4	Improved Damage Localization and Quantification Using Subset Selection. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 548-560	2.4	17
3	Modal Identification through Ambient Vibration: Comparative Study. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 759-770	2.4	60
2	A two-stage damage detection approach based on subset selection and genetic algorithms. <i>Smart Structures and Systems</i> , 2009 , 5, 1-21		41

1 A Structural Damage Detection Method Based on Subset Selection and Evolutionary Computation
2008,

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