

Wei Song

List of Publications by Year in descending order

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45
papers

707
citations

566801

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552369

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g-index

47
all docs

47
docs citations

47
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Modal Identification through Ambient Vibration: Comparative Study. Journal of Engineering Mechanics - ASCE, 2009, 135, 759-770.	1.6	76
2	Deep learning-based roadway crack classification using laser-scanned range images: A comparative study on hyperparameter selection. Automation in Construction, 2020, 114, 103171.	4.8	72
3	Investigation of the structural effect induced by stagger joints in segmental tunnel linings: Direct insight from mechanical behaviors of longitudinal and circumferential joints. Tunnelling and Underground Space Technology, 2018, 71, 271-291.	3.0	53
4	A two-stage damage detection approach based on subset selection and genetic algorithms. Smart Structures and Systems, 2009, 5, 1-21.	1.9	46
5	Real-Time Dynamic Model Updating of a Hysteretic Structural System. Journal of Structural Engineering, 2014, 140, .	1.7	45
6	Generalized minimum variance unbiased joint input-state estimation and its unscented scheme for dynamic systems with direct feedthrough. Mechanical Systems and Signal Processing, 2018, 99, 886-920.	4.4	41
7	Development and testing of a bridge weigh-in-motion method considering nonconstant vehicle speed. Engineering Structures, 2017, 152, 709-726.	2.6	30
8	Crack segmentation through deep convolutional neural networks and heterogeneous image fusion. Automation in Construction, 2021, 125, 103605.	4.8	30
9	Application of Nonlinear Model Updating for a Reinforced Concrete Shear Wall. Journal of Engineering Mechanics - ASCE, 2013, 139, 635-649.	1.6	27
10	Improved Damage Localization and Quantification Using Subset Selection. Journal of Engineering Mechanics - ASCE, 2009, 135, 548-560.	1.6	26
11	A parameter subset selection method using residual force vector for detecting multiple damage locations. Structural Control and Health Monitoring, 2010, 17, 48-67.	1.9	23
12	Robust Image-Based Surface Crack Detection Using Range Data. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	23
13	Development of a cyber-physical experimental platform for real-time dynamic model updating. Mechanical Systems and Signal Processing, 2013, 37, 388-402.	4.4	22
14	Concrete roadway crack segmentation using encoder-decoder networks with range images. Automation in Construction, 2020, 120, 103403.	4.8	22
15	Deep learning-based roadway crack classification with heterogeneous image data fusion. Structural Health Monitoring, 2021, 20, 1274-1293.	4.3	21
16	Experimental and analytical investigation of end zone cracking in BT-78 girders. Engineering Structures, 2017, 151, 503-517.	2.6	15
17	Conceptual Study of a Real-Time Hybrid Simulation Framework for Monopile Offshore Wind Turbines Under Wind and Wave Loads. Frontiers in Built Environment, 2020, 6, .	1.2	15
18	Real-time aerodynamics hybrid simulation: Wind-induced effects on a reduced-scale building equipped with full-scale dampers. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 190, 1-9.	1.7	14

#	ARTICLE	IF	CITATIONS
19	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.	1.6	13
20	A real-time hybrid aeroelastic simulation platform for flexible wings. <i>Aerospace Science and Technology</i> , 2019, 95, 105513.	2.5	12
21	Numerical modeling and parametric study of hybrid fiber-rebar reinforced concrete tunnel linings. <i>Engineering Structures</i> , 2022, 251, 113565.	2.6	10
22	Multi-unit rolling isolation system arrays: Analytical model and sensitivity analysis. <i>Engineering Structures</i> , 2018, 173, 656-668.	2.6	9
23	Global sensitivity analysis for the design of nonlinear identification experiments. <i>Nonlinear Dynamics</i> , 2019, 98, 375-394.	2.7	9
24	Identification of an experimental nonlinear energy sink device using the unscented Kalman filter. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106512.	4.4	9
25	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.	3.0	8
26	Environmental-effects-embedded model updating method considering environmental impacts. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2116.	1.9	7
27	Optimal feedback design for nonlinear stochastic systems using the pseudospectral method. <i>International Journal of Non-Linear Mechanics</i> , 2013, 55, 70-78.	1.4	6
28	Application of nonlinear observers in hysteretic model updating. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
29	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
30	Editorial: Recent Advances and Applications of Hybrid Simulation. <i>Frontiers in Built Environment</i> , 2020, 6, .	1.2	2
31	A Structural Damage Detection Method Based on Subset Selection and Evolutionary Computation. , 2008, , .		1
32	A general numerical solution to optimal nonlinear stochastic structural control problem. , 2010, , .		1
33	Nonlinear Aeroelastic Modeling and Analysis of Flexible Wind Turbine Blades. , 2015, , .		1
34	Variation of modal properties induced by combined effects of temperature and boundary condition. , 2015, , .		1
35	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
36	Discrete-Time ARMAv Model-Based Optimal Sensor Placement. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0

#	ARTICLE	IF	CITATIONS
37	Structural damage localization with tolerance to large time synchronization errors in WSNs. , 2009, , .		0
38	Application of pseudospectral method in stochastic optimal control of nonlinear structural systems. , 2011, , .		0
39	Numerical solutions to optimal power-flow-constrained vibratory energy harvesting problems. , 2013, , .		0
40	A wind turbine hybrid simulation framework considering aeroelastic effects. Proceedings of SPIE, 2015, , .	0.8	0
41	Updating finite element models considering environmental impacts. , 2016, , .		0
42	Real-Time Hybrid Simulation and Experiment for Aeroelastic Testing of Flexible Wings. , 2019, , .		0
43	Trust-region optimization-based model updating with subset selection and damage functions for SHM. , 2008, , .		0
44	A Finite Element Model Updating Method Considering Environmental Impacts. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 313-324.	0.3	0
45	Stability of Real-Time Hybrid Aeroelastic Simulations with Actuation and Sensor Measurement Delays. , 2022, , .		0