Heung-Fai Lam

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Study of wake characteristics of a vertical axis wind turbine by two- and three-dimensional computational fluid dynamics simulations. Renewable Energy, 2016, 90, 386-398.	4.3	147
2	Bayesian model updating of a coupled-slab system using field test data utilizing an enhanced Markov chain Monte Carlo simulation algorithm. Engineering Structures, 2015, 102, 144-155.	2.6	122
3	Structural Health Monitoring via Measured Ritz Vectors Utilizing Artificial Neural Networks. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 232-241.	6.3	108
4	On the complexity of artificial neural networks for smart structures monitoring. Engineering Structures, 2006, 28, 977-984.	2.6	89
5	Dynamic reduction-based structural damage detection of transmission tower utilizing ambient vibration data. Engineering Structures, 2009, 31, 2009-2019.	2.6	79
6	Analysis and design of the general and outmost-ring stiffened suspen-dome structures. Engineering Structures, 2003, 25, 1685-1695.	2.6	73
7	A Bayesian Probabilistic Approach for Crack Characterization in Plate Structures. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 375-386.	6.3	73
8	Bayesian operational modal analysis and Markov chain Monte Carlo-based model updating of a factory building. Engineering Structures, 2017, 132, 314-336.	2.6	70
9	Tangential-projection algorithm for manifold representation in unidentifiable model updating problems. Earthquake Engineering and Structural Dynamics, 2002, 31, 791-812.	2.5	58
10	Turbulence effects on the wake characteristics and aerodynamic performance of a straight-bladed vertical axis wind turbine by wind tunnel tests and large eddy simulations. Energy, 2016, 109, 557-568.	4.5	56
11	The Bayesian methodology for the detection of railway ballast damage under a concrete sleeper. Engineering Structures, 2014, 81, 289-301.	2.6	53
12	Markov chain Monte Carlo-based Bayesian method for structural model updating and damage detection. Structural Control and Health Monitoring, 2018, 25, e2140.	1.9	51
13	Assessment and optimization of the power performance of twin vertical axis wind turbines via numerical simulations. Renewable Energy, 2020, 147, 43-54.	4.3	50
14	Full-scale dynamic testing and modal identification of a coupled floor slab system. Engineering Structures, 2012, 37, 167-178.	2.6	49
15	Development of a practical algorithm for Bayesian model updating of a coupled slab system utilizing field test data. Engineering Structures, 2014, 79, 182-194.	2.6	48
16	A feasibility study on railway ballast damage detection utilizing measured vibration of in situ concrete sleeper. Engineering Structures, 2012, 45, 284-298.	2.6	46
17	Assessing uncertainty in operational modal analysis incorporating multiple setups using a Bayesian approach. Structural Control and Health Monitoring, 2015, 22, 395-416.	1.9	43
18	Fast Bayesian approach for modal identification using free vibration data, Part I – Most probable value. Mechanical Systems and Signal Processing, 2016, 70-71, 209-220.	4.4	42

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19	Entropyâ€Based Optimal Sensor Placement for Model Identification of Periodic Structures Endowed with Bolted Joints. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 1007-1024.	6.3	41
20	Experimental characterization of multiple cracks in a cantilever beam utilizing transient vibration data following a probabilistic approach. Journal of Sound and Vibration, 2007, 305, 34-49.	2.1	39
21	Structural protection using MR dampers with clipped robust reliability-based control. Structural and Multidisciplinary Optimization, 2007, 34, 431-443.	1.7	39
22	Investigation into the wake aerodynamics of a five-straight-bladed vertical axis wind turbine by wind tunnel tests. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 155, 23-35.	1.7	38
23	Bayesian structural model updating using ambient vibration data collected by multiple setups. Structural Control and Health Monitoring, 2017, 24, e2023.	1.9	36
24	Power performance assessment of H-rotor vertical axis wind turbines with different aspect ratios in turbulent flows via experiments. Energy, 2019, 173, 121-132.	4.5	35
25	Statistical detection of multiple cracks on thin plates utilizing dynamic response. Engineering Structures, 2010, 32, 3145-3152.	2.6	33
26	Bayesian structural damage detection of steel towers using measured modal parameters. Earthquake and Structures, 2015, 8, 935-956.	1.0	32
27	Identification of rail-sleeper-ballast system through time-domain Markov chain Monte Carlo-based Bayesian approach. Engineering Structures, 2017, 140, 421-436.	2.6	31
28	Markov chain Monte Carlo-based Bayesian model updating of a sailboat-shaped building using a parallel technique. Engineering Structures, 2019, 193, 12-27.	2.6	30
29	An efficient adaptive sequential Monte Carlo method for Bayesian model updating and damage detection. Structural Control and Health Monitoring, 2018, 25, e2260.	1.9	28
30	Application of two-dimensional spatial wavelet transform in the detection of an obstructed crack on a thin plate. Structural Control and Health Monitoring, 2012, 19, 260-277.	1.9	25
31	Operational modal identification and finite element model updating of a coupled building following Bayesian approach. Structural Control and Health Monitoring, 2018, 25, e2089.	1.9	21
32	Dynamic Analysis of Finite-Length Circular Cylindrical Shells with a Circumferential Surface Crack. Journal of Engineering Mechanics - ASCE, 2013, 139, 1419-1434.	1.6	19
33	A Bayesian methodology for detection of railway ballast damage using the modified Ludwik nonlinear model. Engineering Structures, 2021, 236, 112047.	2.6	19
34	An innovative Bayesian system identification method using autoregressive model. Mechanical Systems and Signal Processing, 2019, 133, 106289.	4.4	16
35	Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. IEEE Nanotechnology Magazine, 2017, 16, 798-805.	1.1	12
36	Time-domain Markov chain Monte Carlo–based Bayesian damage detection of ballasted tracks using nonlinear ballast stiffness model. Structural Health Monitoring, 2021, 20, 2653-2677.	4.3	12

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37	Comparative study of the performances of a bio-inspired flexible-bladed wind turbine and a rigid-bladed wind turbine in centimeter-scale. Energy, 2020, 213, 118835.	4.5	12
38	Bayesian model updating of a 20-story office building utilizing operational modal analysis results. Advances in Structural Engineering, 2019, 22, 3385-3394.	1.2	11
39	Statistical detection of structural damage based on model reduction. Applied Mathematics and Mechanics (English Edition), 2009, 30, 875-888.	1.9	8
40	A feasibility study on void detection of cement-emulsified asphalt mortar for slab track system utilizing measured vibration data. Engineering Structures, 2021, 245, 112349.	2.6	7
41	Bayesian System Identification of Rail–Sleeper–Ballast System in Time and Modal Domains: Comparative Study. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	4
42	Numerical investigation of the power and self-start performance of a folding-blade horizontal axis wind turbine with a downwind configuration. International Journal of Green Energy, 2022, 19, 28-51.	2.1	3
43	On the selection of the most plausible non-linear axial stress–strain model for railway ballast under different impulse magnitudes. Structural Health Monitoring, 0, , 147592172110339.	4.3	3
44	Development of a virtual testing application for the teaching and learning of structural engineering. IES Journal Part A: Civil and Structural Engineering, 2010, 3, 119-130.	0.4	2
45	A data-driven method for real-time compaction quality evaluation of a cement-stabilized base layer. Advances in Structural Engineering, 0, , 136943322210946.	1.2	1