## Heung-Fai Lam

## List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8701874/heung-fai-lam-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

45
papers

1,405
citations

25
h-index

37
g-index

47
ext. papers

1,622
ext. citations

4.8
avg, IF

5.23
L-index

#	Paper	IF	Citations
45	A Bayesian methodology for detection of railway ballast damage using the modified Ludwik nonlinear model. <i>Engineering Structures</i> , <b>2021</b> , 236, 112047	4.7	7
44	A feasibility study on void detection of cement-emulsified asphalt mortar for slab track system utilizing measured vibration data. <i>Engineering Structures</i> , <b>2021</b> , 245, 112349	4.7	2
43	An Efficient Markov Chain Monte Carlo Method for Bayesian System Identification of Tower Structures. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 975-983	0.3	
42	Assessment and optimization of the power performance of twin vertical axis wind turbines via numerical simulations. <i>Renewable Energy</i> , <b>2020</b> , 147, 43-54	8.1	25
41	Time-domain Markov chain Monte CarloBased Bayesian damage detection of ballasted tracks using nonlinear ballast stiffness model. <i>Structural Health Monitoring</i> , <b>2020</b> , 147592172096695	4.4	6
40	Comparative study of the performances of a bio-inspired flexible-bladed wind turbine and a rigid-bladed wind turbine in centimeter-scale. <i>Energy</i> , <b>2020</b> , 213, 118835	7.9	3
39	Bayesian model updating of a 20-story office building utilizing operational modal analysis results. <i>Advances in Structural Engineering</i> , <b>2019</b> , 22, 3385-3394	1.9	6
38	Markov chain Monte Carlo-based Bayesian model updating of a sailboat-shaped building using a parallel technique. <i>Engineering Structures</i> , <b>2019</b> , 193, 12-27	4.7	20
37	An innovative Bayesian system identification method using autoregressive model. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 133, 106289	7.8	5
36	Power performance assessment of H-rotor vertical axis wind turbines with different aspect ratios in turbulent flows via experiments. <i>Energy</i> , <b>2019</b> , 173, 121-132	7.9	17
35	Markov chain Monte Carlo-based Bayesian method for structural model updating and damage detection. <i>Structural Control and Health Monitoring</i> , <b>2018</b> , 25, e2140	4.5	32
34	Operational modal identification and finite element model updating of a coupled building following Bayesian approach. <i>Structural Control and Health Monitoring</i> , <b>2018</b> , 25, e2089	4.5	19
33	An efficient adaptive sequential Monte Carlo method for Bayesian model updating and damage detection. <i>Structural Control and Health Monitoring</i> , <b>2018</b> , 25, e2260	4.5	18
32	Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. <i>IEEE Nanotechnology Magazine</i> , <b>2017</b> , 16, 798-805	2.6	10
31	Bayesian operational modal analysis and Markov chain Monte Carlo-based model updating of a factory building. <i>Engineering Structures</i> , <b>2017</b> , 132, 314-336	4.7	52
30	Bayesian structural model updating using ambient vibration data collected by multiple setups. <i>Structural Control and Health Monitoring</i> , <b>2017</b> , 24, e2023	4.5	27
29	Identification of rail-sleeper-ballast system through time-domain Markov chain Monte Carlo-based Bayesian approach. <i>Engineering Structures</i> , <b>2017</b> , 140, 421-436	4.7	24

## (2009-2017)

28	Entropy-Based Optimal Sensor Placement for Model Identification of Periodic Structures Endowed with Bolted Joints. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2017</b> , 32, 1007-1024	8.4	33
27	Study of wake characteristics of a vertical axis wind turbine by two- and three-dimensional computational fluid dynamics simulations. <i>Renewable Energy</i> , <b>2016</b> , 90, 386-398	8.1	111
26	Fast Bayesian approach for modal identification using free vibration data, Part I Most probable value. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 70-71, 209-220	7.8	33
25	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. <i>Energy</i> , <b>2016</b> , 109, 557-568	7.9	46
24	Investigation into the wake aerodynamics of a five-straight-bladed vertical axis wind turbine by wind tunnel tests. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2016</b> , 155, 23-35	3.7	32
23	Bayesian model updating of a coupled-slab system using field test data utilizing an enhanced Markov chain Monte Carlo simulation algorithm. <i>Engineering Structures</i> , <b>2015</b> , 102, 144-155	4.7	95
22	Assessing uncertainty in operational modal analysis incorporating multiple setups using a Bayesian approach. <i>Structural Control and Health Monitoring</i> , <b>2015</b> , 22, 395-416	4.5	35
21	Bayesian structural damage detection of steel towers using measured modal parameters. <i>Earthquake and Structures</i> , <b>2015</b> , 8, 935-956		29
20	The Bayesian methodology for the detection of railway ballast damage under a concrete sleeper. Engineering Structures, <b>2014</b> , 81, 289-301	4.7	46
19	Development of a practical algorithm for Bayesian model updating of a coupled slab system utilizing field test data. <i>Engineering Structures</i> , <b>2014</b> , 79, 182-194	4.7	39
18	Dynamic Analysis of Finite-Length Circular Cylindrical Shells with a Circumferential Surface Crack. Journal of Engineering Mechanics - ASCE, <b>2013</b> , 139, 1419-1434	2.4	14
17	Full-scale dynamic testing and modal identification of a coupled floor slab system. <i>Engineering Structures</i> , <b>2012</b> , 37, 167-178	4.7	42
16	A feasibility study on railway ballast damage detection utilizing measured vibration of in situ concrete sleeper. <i>Engineering Structures</i> , <b>2012</b> , 45, 284-298	4.7	35
15	Application of two-dimensional spatial wavelet transform in the detection of an obstructed crack on a thin plate. <i>Structural Control and Health Monitoring</i> , <b>2012</b> , 19, 260-277	4.5	22
14	A Bayesian Probabilistic Approach for Crack Characterization in Plate Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2010</b> , 25, 375-386	8.4	67
13	Development of a virtual testing application for the teaching and learning of structural engineering. <i>IES Journal Part A: Civil and Structural Engineering</i> , <b>2010</b> , 3, 119-130		2
12	Statistical detection of multiple cracks on thin plates utilizing dynamic response. <i>Engineering Structures</i> , <b>2010</b> , 32, 3145-3152	4.7	31
11	Statistical detection of structural damage based on model reduction. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2009</b> , 30, 875-888	3.2	6

10	Dynamic reduction-based structural damage detection of transmission tower utilizing ambient vibration data. <i>Engineering Structures</i> , <b>2009</b> , 31, 2009-2019	4.7	58
9	Experimental characterization of multiple cracks in a cantilever beam utilizing transient vibration data following a probabilistic approach. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 305, 34-49	3.9	36
8	Structural protection using MR dampers with clipped robust reliability-based control. <i>Structural and Multidisciplinary Optimization</i> , <b>2007</b> , 34, 431-443	3.6	30
7	Structural Health Monitoring via Measured Ritz Vectors Utilizing Artificial Neural Networks. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2006</b> , 21, 232-241	8.4	95
6	On the complexity of artificial neural networks for smart structures monitoring. <i>Engineering Structures</i> , <b>2006</b> , 28, 977-984	4.7	78
5	Analysis and design of the general and outmost-ring stiffened suspen-dome structures. <i>Engineering Structures</i> , <b>2003</b> , 25, 1685-1695	4.7	61
4	Tangential-projection algorithm for manifold representation in unidentifiable model updating problems. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2002</b> , 31, 791-812	4	51
3	Numerical investigation of the power and self-start performance of a folding-blade horizontal axis wind turbine with a downwind configuration. <i>International Journal of Green Energy</i> ,1-24	3	2
2	On the selection of the most plausible non-linear axial stressEtrain model for railway ballast under different impulse magnitudes. <i>Structural Health Monitoring</i> ,147592172110339	4.4	2
1	A data-driven method for real-time compaction quality evaluation of a cement-stabilized base layer. <i>Advances in Structural Engineering</i> ,136943322210946	1.9	