

Lakshmi K

List of Publications by Year in Descending Order

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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.

40
papers

347
citations

12
h-index

17
g-index

41
ext. papers

408
ext. citations

2.2
avg, IF

4.22
L-index

#	Paper	IF	Citations
40	A Non-model Damage Diagnostic Technique for Online Structural Health Monitoring. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 235-246	0.4	
39	A Data Fusion Technique Using Acceleration and Strain Measurements for Enhanced Damage Localization in Civil Structures. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 357-374	0.4	
38	Decentralized damage diagnostic technique for tall buildings using VARMAX model. <i>Earthquake Engineering and Engineering Vibration</i> , 2022 , 21, 417-439	2	
37	Modal Identification of Practical Engineering Structures using Second-Order Blind Identification. <i>Journal of the Institution of Engineers (India): Series A</i> , 2021 , 102, 499-512	1	
36	Detection and quantification of damage in bridges using a hybrid algorithm with spatial filters under environmental and operational variability. <i>Structures</i> , 2021 , 32, 617-631	3.4	4
35	A Multi-Model Based Approach for the Detection of Subtle Structural Damage Considering Environmental Variability. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2050038	1.9	2
34	Structural damage diagnosis under varying environmental conditions with very limited measurements. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 665-686	2.3	7
33	Reconstruction of impact load on structures with limited measurements using dynamic hybrid adaptive differential search algorithm. <i>Inverse Problems in Science and Engineering</i> , 2020 , 28, 340-373	1.3	1
32	A Novel Hybrid Technique to Identify the Minor Cracks in the Structure During Online Health Monitoring. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 773-784	0.4	
31	Detection of Subtle Damage in Structures through Smart Signal Reconstruction. <i>Procedia Structural Integrity</i> , 2019 , 14, 282-289	1	2
30	Handling Environmental and Operational Variations in Structural Health Monitoring. <i>Lecture Notes in Civil Engineering</i> , 2019 , 1111-1122	0.3	
29	A novel vibration based breathing crack localization technique using a single sensor measurement. <i>Mechanical Systems and Signal Processing</i> , 2019 , 122, 117-138	7.8	9
28	Multi-objective optimal design of composite box beam using hybrid adaptive harmony search with dynamically reconfigurable harmony memory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 713-734	1.3	1
27	A novel singular spectrum analysisBased baseline-free approach for fatigue-breathing crack identification. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 2249-2266	2.3	15
26	Dynamic force reconstruction techniques from incomplete measurements. <i>JVC/Journal of Vibration and Control</i> , 2018 , 24, 5321-5344	2	7
25	Output-only damage localization technique using time series model. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018 , 43, 1	1	6
24	Singular spectrum analysis combined with ARMAX model for structural damage detection. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e1960	4.5	30

23	Nonlinear parametric identification strategy combining reverse path and hybrid dynamic quantum particle swarm optimization. <i>Nonlinear Dynamics</i> , 2016 , 84, 797-815	5	16
22	Structural damage detection using ARMAX time series models and cepstral distances. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016 , 41, 1081-1097	1	8
21	Detection of delamination in laminated composites with limited measurements combining PCA and dynamic QPSO. <i>Advances in Engineering Software</i> , 2015 , 86, 85-106	3.6	38
20	Nonlinear identification of structures using ambient vibration data. <i>Computers and Structures</i> , 2015 , 154, 116-134	4.5	20
19	Sensor fault detection in structural health monitoring using null subspace based approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 172-185	2.3	22
18	Damage identification technique based on time series models for LANL and ASCE benchmark structures. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2015 , 57, 580-588	1.3	9
17	Damage diagnostic technique combining POD with time-frequency analysis and dynamic quantum PSO. <i>Meccanica</i> , 2015 , 50, 1551-1578	2.1	24
16	A Sensor Fault Detection Algorithm for Structural Health Monitoring Using Adaptive Differential Evolution. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2014 , 15, 282-293	0.7	4
15	A Robust SHM Scheme Combining Time Series Models with Dynamic QPSO Algorithm. <i>Procedia Engineering</i> , 2014 , 86, 870-877		2
14	A Generalized Optimal Sensor Placement Technique for Structural Health Monitoring and System Identification. <i>Procedia Engineering</i> , 2014 , 86, 529-538		20
13	A robust damage-detection technique with environmental variability combining time-series models with principal components. <i>Nondestructive Testing and Evaluation</i> , 2014 , 29, 357-376	2	22
12	Optimal design of laminate composite isogrid with dynamically reconfigurable quantum PSO. <i>Structural and Multidisciplinary Optimization</i> , 2013 , 48, 1001-1021	3.6	13
11	Multi-objective optimal design of laminated composite skirt using hybrid NSGA. <i>Meccanica</i> , 2013 , 48, 1431-1450	2.1	11
10	Hybrid shuffled frog leaping optimisation algorithm for multi-objective optimal design of laminate composites. <i>Computers and Structures</i> , 2013 , 125, 200-216	4.5	14
9	Adaptive Hybrid Harmony Search algorithm for optimal design of laminate composites 2012 ,		1
8	Multi-objective optimal design of laminate composite shells and stiffened shells. <i>Structural Engineering and Mechanics</i> , 2012 , 43, 771-794		5
7	Sensor Fault Detection in Large Sensor Networks using PCA with a Multi-level Search Algorithm. <i>SDHM Structural Durability and Health Monitoring</i> , 2012 , 8, 271-294	1.9	3
6	Discrete hybrid PSO algorithm for design of laminate composites with multiple objectives. <i>Journal of Reinforced Plastics and Composites</i> , 2011 , 30, 1703-1727	2.9	23

5	Structural parameter estimation combining domain decomposition techniques with immune algorithm. <i>Smart Structures and Systems</i> , 2011 , 8, 343-365		2
4	Multi-objective adaptive differential evolution algorithm for combinatorial optimisation 2010 ,		1
3	Multi-objective Scatter Search Algorithm for Combinatorial Optimisation 2008 ,		3
2	Damage detection in nonlinear vibrating structures using model updating. <i>Engineering With Computers</i> ,1	4.5	1
1	Damage diagnosis of high-rise buildings under variable ambient conditions using subdomain approach. <i>Inverse Problems in Science and Engineering</i> ,1-32	1.3	1