

# Lakshmi K

## List of Publications by Year in descending order

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39  
papers

448  
citations

686830

13  
h-index

752256

20  
g-index

41  
all docs

41  
docs citations

41  
times ranked

367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of delamination in laminated composites with limited measurements combining PCA and dynamic QPSO. <i>Advances in Engineering Software</i> , 2015, 86, 85-106.	1.8	46
2	Singular spectrum analysis combined with ARMAX model for structural damage detection. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1960.	1.9	41
3	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.	1.4	29
4	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.	1.1	27
5	Nonlinear identification of structures using ambient vibration data. <i>Computers and Structures</i> , 2015, 154, 116-134.	2.4	26
6	Damage diagnostic technique combining POD with time-frequency analysis and dynamic quantum PSO. <i>Meccanica</i> , 2015, 50, 1551-1578.	1.2	24
7	Discrete hybrid PSO algorithm for design of laminate composites with multiple objectives. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1703-1727.	1.6	23
8	A novel singular spectrum analysis-based baseline-free approach for fatigue-breathing crack identification. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2249-2266.	1.4	23
9	A Generalized Optimal Sensor Placement Technique for Structural Health Monitoring and System Identification. <i>Procedia Engineering</i> , 2014, 86, 529-538.	1.2	22
10	Nonlinear parametric identification strategy combining reverse path and hybrid dynamic quantum particle swarm optimization. <i>Nonlinear Dynamics</i> , 2016, 84, 797-815.	2.7	18
11	Hybrid shuffled frog leaping optimisation algorithm for multi-objective optimal design of laminate composites. <i>Computers and Structures</i> , 2013, 125, 200-216.	2.4	17
12	A novel vibration based breathing crack localization technique using a single sensor measurement. <i>Mechanical Systems and Signal Processing</i> , 2019, 122, 117-138.	4.4	17
13	Optimal design of laminate composite isogrid with dynamically reconfigurable quantum PSO. <i>Structural and Multidisciplinary Optimization</i> , 2013, 48, 1001-1021.	1.7	15
14	Multi-objective optimal design of laminated composite skirt using hybrid NSGA. <i>Meccanica</i> , 2013, 48, 1431-1450.	1.2	13
15	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.	0.3	11
16	Dynamic force reconstruction techniques from incomplete measurements. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 5321-5344.	1.5	11
17	Structural damage diagnosis under varying environmental conditions with very limited measurements. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 665-686.	1.4	11
18	Structural damage detection using ARMAX time series models and cepstral distances. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016, 41, 1081-1097.	0.8	10

#	ARTICLE	IF	CITATIONS
19	Detection and quantification of damage in bridges using a hybrid algorithm with spatial filters under environmental and operational variability. Structures, 2021, 32, 617-631.	1.7	10
20	Output-only damage localization technique using time series model. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	7
21	Damage diagnosis of high-rise buildings under variable ambient conditions using subdomain approach. Inverse Problems in Science and Engineering, 2021, 29, 2579-2610.	1.2	6
22	A Sensor Fault Detection Algorithm for Structural Health Monitoring Using Adaptive Differential Evolution. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 282-293.	1.4	5
23	Detection of Subtle Damage in Structures through Smart Signal Reconstruction. Procedia Structural Integrity, 2019, 14, 282-289.	0.3	5
24	A Multi-Model Based Approach for the Detection of Subtle Structural Damage Considering Environmental Variability. International Journal of Structural Stability and Dynamics, 2020, 20, 2050038.	1.5	5
25	Multi-objective optimal design of laminate composite shells and stiffened shells. Structural Engineering and Mechanics, 2012, 43, 771-794.	1.0	5
26	Multi-objective Scatter Search Algorithm for Combinatorial Optimisation. , 2008, , .		4
27	Reconstruction of impact load on structures with limited measurements using dynamic hybrid adaptive differential search algorithm. Inverse Problems in Science and Engineering, 2020, 28, 340-373.	1.2	3
28	Damage detection in nonlinear vibrating structures using model updating. Engineering With Computers, 2022, 38, 3567-3594.	3.5	3
29	Sensor Fault Detection in Large Sensor Networks using PCA with a Multi-level Search Algorithm. SDHM Structural Durability and Health Monitoring, 2012, 8, 271-294.	0.6	3
30	A Robust SHM Scheme Combining Time Series Models with Dynamic QPSO Algorithm. Procedia Engineering, 2014, 86, 870-877.	1.2	2
31	Structural parameter estimation combining domain decomposition techniques with immune algorithm. Smart Structures and Systems, 2011, 8, 343-365.	1.9	2
32	Multi-objective adaptive differential evolution algorithm for combinatorial optimisation. , 2010, , .		1
33	Adaptive Hybrid Harmony Search algorithm for optimal design of laminate composites. , 2012, , .		1
34	Handling Environmental and Operational Variations in Structural Health Monitoring. Lecture Notes in Civil Engineering, 2019, , 1111-1122.	0.3	1
35	Multi-objective optimal design of composite box beam using hybrid adaptive harmony search with dynamically reconfigurable harmony memory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 713-734.	1.1	1
36	A memetic algorithm for combinatorial problems with multiple objectives. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
37	A Novel Hybrid Technique to Identify the Minor Cracks in the Structure During Online Health Monitoring. Lecture Notes in Mechanical Engineering, 2020, , 773-784.	0.3	0
38	Modal Identification of Practical Engineering Structures using Second-Order Blind Identification. Journal of the Institution of Engineers (India): Series A, 2021, 102, 499-512.	0.6	0
39	Decentralized damage diagnostic technique for tall buildings using VARMAX model. Earthquake Engineering and Engineering Vibration, 2022, 21, 417-439.	1.1	0