Yuequan Bao

List of Publications by Year in Descending Order

48 papers	1,681 citations	25 h-index	40 g-index
53 ext. papers	2,357 ext. citations	4.6 avg, IF	5.6 L-index

#	Paper	IF	Citations
48	Structural dominant failure modes searching method based on deep reinforcement learning. *Reliability Engineering and System Safety*, **2021**, 219, 108258	6.3	0
47	Adaptive subset searching-based deep neural network method for structural reliability analysis. *Reliability Engineering and System Safety*, **2021**, 213, 107778	6.3	6
46	Machine-learning-based methods for output-only structural modal identification. *Structural Control and Health Monitoring*, **2021**, 28, e2843	4.5	9
45	Attribute-based structural damage identification by few-shot meta learning with inter-class knowledge transfer. *Structural Health Monitoring*, **2020**, 147592172092113	4.4	10
44	Group sparsity-aware convolutional neural network for continuous missing data recovery of structural health monitoring. *Structural Health Monitoring*, **2020**, 147592172093174	4.4	7
43	Deep reinforcement learning-based sampling method for structural reliability assessment. *Reliability Engineering and System Safety*, **2020**, 199, 106901	6.3	16
42	An active learning method combining deep neural network and weighted sampling for structural reliability analysis. *Mechanical Systems and Signal Processing*, **2020**, 140, 106684	7.8	25
41	Clarifying and quantifying the geometric correlation for probability distributions of inter-sensor monitoring data: A functional data analytic methodology. *Mechanical Systems and Signal Processing*, **2020**, 138, 106540	7.8	5
40	Optimal policy for structure maintenance: A deep reinforcement learning framework. *Structural Safety*, **2020**, 83, 101906	4.9	28
39	Machine learning paradigm for structural health monitoring. *Structural Health Monitoring*, **2020**, 147592172093241	4.4	32
38	Compressive-sensing data reconstruction for structural health monitoring: a machine-learning approach. *Structural Health Monitoring*, **2020**, 19, 293-304	4.4	31
37	A machine learning–based approach for adaptive sparse time–frequency analysis used in structural health monitoring. *Structural Health Monitoring*, **2020**, 19, 1963-1975	4.4	12
36	Automatic seismic damage identification of reinforced concrete columns from images by a region-based deep convolutional neural network. *Structural Control and Health Monitoring*, **2019**, 26, e2313	4.5	66
35	The State of the Art of Data Science and Engineering in Structural Health Monitoring. *Engineering*, **2019**, 5, 234-242	9.7	128
34	Analyzing and modeling inter-sensor relationships for strain monitoring data and missing data imputation: a copula and functional data-analytic approach. *Structural Health Monitoring*, **2019**, 18, 1168-1188	4.4	31
33	Modelling the spatial distribution of heavy vehicle loads on long-span bridges based on undirected graphical model. *Structure and Infrastructure Engineering*, **2019**, 15, 1485-1499	2.9	4
32	Video-based multiscale identification approach for tower vibration of a cable-stayed bridge model under earthquake ground motions. *Structural Control and Health Monitoring*, **2019**, 26, e2314	4.5	9

31	LQD-RKHS-based distribution-to-distribution regression methodology for restoring the probability distributions of missing SHM data. *Mechanical Systems and Signal Processing*, **2019**, 121, 655-674	7.8	22
30	Convolutional neural network-based data anomaly detection method using multiple information for structural health monitoring. *Structural Control and Health Monitoring*, **2019**, 26, e2296	4.5	104
29	Computer vision and deep learning-based data anomaly detection method for structural health monitoring. *Structural Health Monitoring*, **2019**, 18, 401-421	4.4	148
28	Surface fatigue crack identification in steel box girder of bridges by a deep fusion convolutional neural network based on consumer-grade camera images. *Structural Health Monitoring*, **2019**, 18, 653-674	4.4	95
27	Selection of regularization parameter for l1-regularized damage detection. *Journal of Sound and Vibration*, **2018**, 423, 141-160	3.9	49
26	Sparse representation for Lamb-wave-based damage detection using a dictionary algorithm. *Ultrasonics*, **2018**, 87, 48-58	3.5	33
25	Ice monitoring of a full-scale wind turbine blade using ultrasonic guided waves under varying temperature conditions. *Structural Control and Health Monitoring*, **2018**, 25, e2138	4.5	23
24	A novel distribution regression approach for data loss compensation in structural health monitoring. *Structural Health Monitoring*, **2018**, 17, 1473-1490	4.4	20
23	Condition assessment of cables by pattern recognition of vehicle-induced cable tension ratio. *Engineering Structures*, **2018**, 155, 1-15	4.7	51
22	Compressive sensing of wireless sensors based on group sparse optimization for structural health monitoring. *Structural Health Monitoring*, **2018**, 17, 823-836	4.4	24
21	Identification of time-varying cable tension forces based on adaptive sparse time-frequency analysis of cable vibrations. *Structural Control and Health Monitoring*, **2017**, 24, e1889	4.5	44
20	. *IEEE Sensors Journal*, **2016**, 16, 3811-3818	4	17
19	Identification of spatio-temporal distribution of vehicle loads on long-span bridges using computer vision technology. *Structural Control and Health Monitoring*, **2016**, 23, 517-534	4.5	39
18	Sparse l1 optimization-based identification approach for the distribution of moving heavy vehicle loads on cable-stayed bridges. *Structural Control and Health Monitoring*, **2016**, 23, 144-155	4.5	33
17	Generation of Rayleigh-wave dispersion images from multichannel seismic data using sparse signal reconstruction. *Geophysical Journal International*, **2015**, 203, 818-827	2.6	3
16	An Approach of Reliable Data Transmission With Random Redundancy for Wireless Sensors in Structural Health Monitoring. *IEEE Sensors Journal*, **2015**, 15, 809-818	4	19
15	. *IEEE Sensors Journal*, **2015**, 15, 797-808	4	43
14	Compressive sensing-based lost data recovery of fast-moving wireless sensing for structural health monitoring. *Structural Control and Health Monitoring*, **2015**, 22, 433-448	4.5	39

13	Probabilistic deterioration model of high-strength steel wires and its application to bridge cables. *Structure and Infrastructure Engineering*, **2015**, 11, 1240-1249	2.9	29
12	Emerging data technology in structural health monitoring: compressive sensing technology. *Journal of Civil Structural Health Monitoring*, **2014**, 4, 77-90	2.9	25
11	A data-driven approach for seismic damage detection of shear-type building structures using the fractal dimension of time–frequency features. *Structural Control and Health Monitoring*, **2013**, 20, 1191-1210	4.5	19
10	Compressive sampling–based data loss recovery for wireless sensor networks used in civil structural health monitoring. *Structural Health Monitoring*, **2013**, 12, 78-95	4.4	89
9	Compressive sampling based approach for identification of moving loads distribution on cable-stayed bridges **2013**,		4
8	Structural damage identification based on substructure sensitivity and l1sparse regularization **2013**,		17
7	DATA FUSION-BASED STRUCTURAL DAMAGE DETECTION UNDER VARYING TEMPERATURE CONDITIONS. *International Journal of Structural Stability and Dynamics*, **2012**, 12, 1250052	1.9	16
6	Dempster–Shafer evidence theory approach to structural damage detection. *Structural Health Monitoring*, **2012**, 11, 13-26	4.4	35
5	Investigation of Temperature Effects on Modal Parameters of the China National Aquatics Center. *Advances in Structural Engineering*, **2012**, 15, 1139-1153	1.9	14
4	Fractal Dimension-Based Damage Detection Method for Beams with a Uniform Cross-Section. *Computer-Aided Civil and Infrastructure Engineering*, **2011**, 26, 190-206	8.4	64
3	Structural damage identification based on integration of information fusion and shannon entropy. *Mechanical Systems and Signal Processing*, **2008**, 22, 1427-1440	7.8	44
2	Uncertainty quantification for the distribution-to-warping function regression method used in distribution reconstruction of missing structural health monitoring data. *Structural Health Monitoring*,147592172199338	4.4	0
1	The 1st International Project Competition for Structural Health Monitoring (IPC-SHM, 2020): A summary and benchmark problem. *Structural Health Monitoring*,147592172110064	4.4	8