

James Brownjohn

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184
papers

6,978
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43
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79
g-index

194
ext. papers

8,051
ext. citations

4.2
avg, IF

6.65
L-index

#	Paper	IF	Citations
184	Bayesian Updating of Structural Models and Reliability using Markov Chain Monte Carlo Simulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2002 , 128, 380-391	2.4	498
183	Structural health monitoring of civil infrastructure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 589-622	3	474
182	Experimental identification and analytical modelling of human walking forces: Literature review. <i>Journal of Sound and Vibration</i> , 2009 , 326, 1-49	3.9	234
181	Long-term monitoring and data analysis of the Tamar Bridge. <i>Mechanical Systems and Signal Processing</i> , 2013 , 35, 16-34	7.8	216
180	Civil structure condition assessment by FE model updating:: methodology and case studies. <i>Finite Elements in Analysis and Design</i> , 2001 , 37, 761-775	2.2	207
179	Ambient vibration re-testing and operational modal analysis of the Humber Bridge. <i>Engineering Structures</i> , 2010 , 32, 2003-2018	4.7	206
178	Assessment of Highway Bridge Upgrading by Dynamic Testing and Finite-Element Model Updating. <i>Journal of Bridge Engineering</i> , 2003 , 8, 162-172	2.7	181
177	Vibration-based monitoring of civil infrastructure: challenges and successes. <i>Journal of Civil Structural Health Monitoring</i> , 2011 , 1, 79-95	2.9	176
176	Dynamic Assessment of Curved Cable-Stayed Bridge by Model Updating. <i>Journal of Structural Engineering</i> , 2000 , 126, 252-260	3	175
175	Ambient vibration studies for system identification of tall buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2003 , 32, 71-95	4	168
174	Development of fiber Bragg grating sensors for monitoring civil infrastructure. <i>Engineering Structures</i> , 2005 , 27, 1828-1834	4.7	165
173	ARMA modelled time-series classification for structural health monitoring of civil infrastructure. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 295-314	7.8	147
172	Fast Bayesian FFT Method for Ambient Modal Identification with Separated Modes. <i>Journal of Engineering Mechanics - ASCE</i> , 2011 , 137, 214-226	2.4	143
171	A spectral density approach for modelling continuous vertical forces on pedestrian structures due to walking. <i>Canadian Journal of Civil Engineering</i> , 2004 , 31, 65-77	1.3	134
170	Application of time series analysis for bridge monitoring. <i>Smart Materials and Structures</i> , 2006 , 15, 129-138	3.4	124
169	Bayesian operational modal analysis: Theory, computation, practice. <i>Computers and Structures</i> , 2013 , 126, 3-14	4.5	123
168	Review of machine-vision based methodologies for displacement measurement in civil structures. <i>Journal of Civil Structural Health Monitoring</i> , 2018 , 8, 91-110	2.9	118

167	Structural health monitoring of the Tamar suspension bridge. <i>Structural Control and Health Monitoring</i> , 2013 , 20, 609-625	4.5	117
166	Damage identification of structures with uncertain frequency and mode shape data. <i>Earthquake Engineering and Structural Dynamics</i> , 2002 , 31, 1053-1066	4	103
165	Fast Bayesian ambient modal identification in the frequency domain, Part I: Posterior most probable value. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 60-75	7.8	100
164	Measurements of static and dynamic displacement from visual monitoring of the Humber Bridge. <i>Engineering Structures</i> , 1993 , 15, 197-208	4.7	92
163	Fast Bayesian ambient modal identification in the frequency domain, Part II: Posterior uncertainty. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 76-90	7.8	89
162	Fuzzy Clustering of Stability Diagrams for Vibration-Based Structural Health Monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008 , 23, 360-372	8.4	83
161	A non-contact vision-based system for multipoint displacement monitoring in a cable-stayed footbridge. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2155	4.5	75
160	Stochastic model of near-periodic vertical loads due to humans walking. <i>Advanced Engineering Informatics</i> , 2011 , 25, 259-275	7.4	75
159	Ambient vibration survey of the fatih sultan mehmet (second Bosphorus) suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1992 , 21, 907-924	4	70
158	Temperature Analysis of a Long-Span Suspension Bridge Based on Field Monitoring and Numerical Simulation. <i>Journal of Bridge Engineering</i> , 2016 , 21, 04015027	2.7	65
157	Field observations on modal properties of two tall buildings under strong wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012 , 101, 12-23	3.7	60
156	DETECTION OF ANOMALOUS STRUCTURAL BEHAVIOUR USING WAVELET ANALYSIS. <i>Mechanical Systems and Signal Processing</i> , 2002 , 16, 429-445	7.8	59
155	Humber bridge full-scale measurement campaigns 1990-1991. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1994 , 52, 185-218	3.7	59
154	Experimental methods for estimating modal mass in footbridges using human-induced dynamic excitation. <i>Engineering Structures</i> , 2007 , 29, 2833-2843	4.7	53
153	Assembling mode shapes by least squares. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 163-179	7.8	51
152	Real-time performance monitoring of tuned mass damper system for a 183m reinforced concrete chimney. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010 , 98, 169-179	3.7	49
151	Observations on non-linear dynamic characteristics of suspension bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 1994 , 23, 1351-1367	4	49
150	Development and field testing of a vision-based displacement system using a low cost wireless action camera. <i>Mechanical Systems and Signal Processing</i> , 2019 , 121, 343-358	7.8	49

149	Development and application of a relative displacement sensor for structural health monitoring of composite bridges. <i>Structural Control and Health Monitoring</i> , 2015 , 22, 726-742	4.5	48
148	Response of high frequency floors: A literature review. <i>Engineering Structures</i> , 2010 , 32, 337-352	4.7	48
147	VIBRATION CHARACTERISTICS OF A SUSPENSION FOOTBRIDGE. <i>Journal of Sound and Vibration</i> , 1997 , 202, 29-46	3.9	47
146	Identification of unusual events in multi-channel bridge monitoring data. <i>Mechanical Systems and Signal Processing</i> , 2004 , 18, 409-430	7.8	47
145	Evolution of bridge frequencies and modes of vibration during truck passage. <i>Engineering Structures</i> , 2017 , 152, 452-464	4.7	44
144	Reproduction and application of human bouncing and jumping forces from visual marker data. <i>Journal of Sound and Vibration</i> , 2010 , 329, 3397-3416	3.9	44
143	Connecting Bayesian and frequentist quantification of parameter uncertainty in system identification. <i>Mechanical Systems and Signal Processing</i> , 2012 , 29, 328-342	7.8	43
142	Energy Dissipation from Vibrating Floor Slabs due to Human-Structure Interaction. <i>Shock and Vibration</i> , 2001 , 8, 315-323	1.1	43
141	Uncertainty law in ambient modal identification Part I: Theory. <i>Mechanical Systems and Signal Processing</i> , 2014 , 48, 15-33	7.8	42
140	On assessing the posterior mode shape uncertainty in ambient modal identification. <i>Probabilistic Engineering Mechanics</i> , 2011 , 26, 427-434	2.6	42
139	Ambient vibration survey of the bosphorus suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1989 , 18, 263-283	4	42
138	Dynamic performance of a curved cable-stayed bridge. <i>Engineering Structures</i> , 1999 , 21, 1015-1027	4.7	41
137	Operational deformations in long-span bridges. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 556-574	4	40
136	A framework for experimental determination of localised vertical pedestrian forces on full-scale structures using wireless attitude and heading reference systems. <i>Journal of Sound and Vibration</i> , 2016 , 376, 217-243	3.9	38
135	Effect of Solar Radiation on Suspension Bridge Performance. <i>Journal of Bridge Engineering</i> , 2015 , 20, 04014077	2.7	35
134	Assessing uncertainty in operational modal analysis incorporating multiple setups using a Bayesian approach. <i>Structural Control and Health Monitoring</i> , 2015 , 22, 395-416	4.5	35
133	Measuring and modelling the thermal performance of the Tamar Suspension Bridge using a wireless sensor network. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 176-193	2.9	34
132	Correlating dynamic characteristics from field measurements and numerical analysis of a high-rise building 2000 , 29, 523-543		34

131	Uncertainty law in ambient modal identification---Part II: Implication and field verification. <i>Mechanical Systems and Signal Processing</i> , 2014 , 48, 34-48	7.8	33
130	Lessons from monitoring the performance of highway bridges. <i>Structural Control and Health Monitoring</i> , 2005 , 12, 227-244	4.5	33
129	AMBIENT VIBRATION MEASUREMENTS OF THE HUMBER SUSPENSION BRIDGE AND COM PARISON WITH CALCULATED CHARACTERISTICS. <i>Proceedings of the Institution of Civil Engineers</i> , 1987 , 83, 561-600		33
128	Low cost bridge load test: Calculating bridge displacement from acceleration for load assessment calculations. <i>Engineering Structures</i> , 2017 , 143, 358-374	4.7	32
127	Bayesian operational modal analysis of Jiangyin Yangtze River Bridge. <i>Mechanical Systems and Signal Processing</i> , 2018 , 110, 210-230	7.8	31
126	Long-span bridges: Enhanced data fusion of GPS displacement and deck accelerations. <i>Engineering Structures</i> , 2017 , 147, 639-651	4.7	31
125	Methodologies for predicting natural frequency variation of a suspension bridge. <i>Engineering Structures</i> , 2014 , 80, 211-221	4.7	30
124	Dynamic investigation of a suspension footbridge. <i>Engineering Structures</i> , 1994 , 16, 395-406	4.7	29
123	Procedures for vibration serviceability assessment of high-frequency floors. <i>Engineering Structures</i> , 2008 , 30, 1548-1559	4.7	28
122	Bridge damage detection using rotation measurements I Experimental validation. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106380	7.8	28
121	Bridge Structural Condition Assessment Using Systematically Validated Finite-Element Model. <i>Journal of Bridge Engineering</i> , 2004 , 9, 418-423	2.7	27
120	Suspension bridge parameter identification in full scale test. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1992 , 41, 165-176	3.7	27
119	Structural Identification: Opportunities and Challenges. <i>Journal of Structural Engineering</i> , 2013 , 139, 1639-1647	3	26
118	Mathematical modelling of random narrow band lateral excitation of footbridges due to pedestrians walking. <i>Computers and Structures</i> , 2012 , 90-91, 116-130	4.5	26
117	Accurate Deformation Monitoring on Bridge Structures Using a Cost-Effective Sensing System Combined with a Camera and Accelerometers: Case Study. <i>Journal of Bridge Engineering</i> , 2019 , 24, 05018014	2.7	26
116	Footbridge system identification using wireless inertial measurement units for force and response measurements. <i>Journal of Sound and Vibration</i> , 2016 , 384, 339-355	3.9	25
115	Strategies for aeroelastic parameter identification from bridge deck free vibration data. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2001 , 89, 1113-1136	3.7	25
114	Application of quasi-distributed fibre Bragg grating sensors in reinforced concrete structures. <i>Measurement Science and Technology</i> , 2002 , 13, 583-589	2	25

113	Fast Bayesian modal identification of structures using known single-input forced vibration data. <i>Structural Control and Health Monitoring</i> , 2014 , 21, 381-402	4.5	23
112	Lateral loading and response for a tall building in the non-seismic doldrums. <i>Engineering Structures</i> , 2005 , 27, 1801-1812	4.7	23
111	Seismic analysis of the fatih sultan mehmet (second Bosphorus) suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1992 , 21, 881-906	4	23
110	Experimental modal analysis of British rock lighthouses. <i>Marine Structures</i> , 2018 , 62, 1-22	3.8	22
109	Response of tall buildings to weak long distance earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2001 , 30, 709-729	4	21
108	Quantifying and managing uncertainty in operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2018 , 102, 139-157	7.8	20
107	Dynamics of an aerial cableway system. <i>Engineering Structures</i> , 1998 , 20, 826-836	4.7	20
106	Identifying Loading and Response Mechanisms from Ten Years of Performance Monitoring of a Tall Building. <i>Journal of Performance of Constructed Facilities</i> , 2008 , 22, 24-34	2	19
105	Modern Facilities for Experimental Measurement of Dynamic Loads Induced by Humans: A Literature Review. <i>Shock and Vibration</i> , 2013 , 20, 53-67	1.1	19
104	Bayesian structural identification of a long suspension bridge considering temperature and traffic load effects. <i>Structural Health Monitoring</i> , 2019 , 18, 1310-1323	4.4	19
103	Real-Life Measurement of Tri-Axial Walking Ground Reaction Forces Using Optimal Network of Wearable Inertial Measurement Units. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1243-1253	4.8	19
102	Using GPS for monitoring tall-building response to wind loading: filtering of abrupt changes and low-frequency noise, variography and spectral analysis of displacements. <i>GPS Solutions</i> , 2007 , 11, 85-95	4.4	18
101	ESTIMATION OF DAMPING IN SUSPENSION BRIDGES.. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 1994 , 104, 401-415	0.9	18
100	Resonance-search tests on a small-scale model of a cable-stayed bridge. <i>Engineering Structures</i> , 1991 , 13, 59-66	4.7	17
99	Errors in mechanical impedance data obtained with impedance heads. <i>Journal of Sound and Vibration</i> , 1980 , 73, 461-468	3.9	17
98	From phase drift to synchronisation [pedestrian stepping behaviour on laterally oscillating structures and consequences for dynamic stability. <i>Journal of Sound and Vibration</i> , 2017 , 392, 382-399	3.9	16
97	Universal response spectrum procedure for predicting walking-induced floor vibration. <i>Mechanical Systems and Signal Processing</i> , 2016 , 70-71, 741-755	7.8	16
96	Enhanced sparse component analysis for operational modal identification of real-life bridge structures. <i>Mechanical Systems and Signal Processing</i> , 2019 , 116, 585-605	7.8	16

95	Full-Scale Validation of Dynamic Wind Load on a Super-Tall Building under Strong Wind. <i>Journal of Structural Engineering</i> , 2012 , 138, 1161-1172	3	16
94	Time-dependent spectral analysis of interactions within groups of walking pedestrians and vertical structural motion using wavelets. <i>Mechanical Systems and Signal Processing</i> , 2018 , 105, 502-523	7.8	15
93	Measuring human-induced vibrations of civil engineering structures via vision-based motion tracking. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 83, 44-56	4.6	15
92	The Bengkulu, Southern Sumatra, Earthquake of 4 June 2000 (Mw = 7.7): Another Warning to Remote Metropolitan Areas. <i>Seismological Research Letters</i> , 2001 , 72, 171-185	3	15
91	Understanding and managing identification uncertainty of close modes in operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107018	7.8	15
90	Parameter identification of pedestrian's spring-mass-damper model by ground reaction force records through a particle filter approach. <i>Journal of Sound and Vibration</i> , 2017 , 411, 409-421	3.9	14
89	Bayesian operational modal analysis with asynchronous data, part I: Most probable value. <i>Mechanical Systems and Signal Processing</i> , 2018 , 98, 652-666	7.8	14
88	An expectation-maximization algorithm for Bayesian operational modal analysis with multiple (possibly close) modes. <i>Mechanical Systems and Signal Processing</i> , 2019 , 132, 490-511	7.8	14
87	Frequency modulated empirical mode decomposition method for the identification of instantaneous modal parameters of aeroelastic systems. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012 , 101, 43-52	3.7	14
86	Effects of infill walls and floor diaphragms on the dynamic characteristics of a narrow-rectangle building. <i>Earthquake Engineering and Structural Dynamics</i> , 2006 , 35, 637-651	4	13
85	Correlating measured and simulated dynamic responses of a tall building to long-distance earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2004 , 33, 611-632	4	13
84	Some considerations on the effects of the P-derivatives on bridge deck flutter. <i>Journal of Sound and Vibration</i> , 2005 , 283, 957-969	3.9	13
83	Modeling and simulation of human-floor system under vertical vibration 2001 , 4327, 513		13
82	Bayesian operational modal analysis of offshore rock lighthouses: Close modes, alignment, symmetry and uncertainty. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106306	7.8	12
81	Highway bridge live loading assessment and load carrying capacity estimation using a health monitoring system. <i>Structural Engineering and Mechanics</i> , 2004 , 18, 609-626		12
80	Suspension bridge response due to extreme vehicle loads. <i>Structure and Infrastructure Engineering</i> , 2014 , 10, 821-833	2.9	11
79	Application of Box-Jenkins Models for Assessing the Effect of Unusual Events Recorded by Structural Health Monitoring Systems. <i>Structural Health Monitoring</i> , 2002 , 1, 149-160	4.4	11
78	Identifying damage on a bridge using rotation-based Bridge Weigh-In-Motion. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 175-188	2.9	11

77	Floor Vibration Serviceability in a Multistory Factory Building. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04014203	2	10
76	Using inertial measurement units originally developed for biomechanics for modal testing of civil engineering structures. <i>Mechanical Systems and Signal Processing</i> , 2018 , 104, 776-798	7.8	10
75	Vibration control of ultra-sensitive facilities. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2006 , 159, 295-306	0.9	10
74	Vibration Excitation and Control of a Pedestrian Walkway by Individuals and Crowds. <i>Shock and Vibration</i> , 2005 , 12, 333-347	1.1	10
73	Identifying damage in a bridge by analysing rotation response to a moving load. <i>Structure and Infrastructure Engineering</i> , 2020 , 16, 1050-1065	2.9	10
72	Asymptotic identification uncertainty of close modes in Bayesian operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106273	7.8	9
71	Effect of vehicular loading on suspension bridge dynamic properties. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 129-144	2.9	9
70	Bayesian data driven model for uncertain modal properties identified from operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2020 , 136, 106511	7.8	9
69	Power Spectral-Density Model for Pedestrian Walking Load. <i>Journal of Structural Engineering</i> , 2019 , 145, 04018239	3	9
68	Three decades of statistical pattern recognition paradigm for SHM of bridges. <i>Structural Health Monitoring</i> , 147592172210752	4.4	9
67	Modular Bayesian damage detection for complex civil infrastructure. <i>Journal of Civil Structural Health Monitoring</i> , 2019 , 9, 201-215	2.9	8
66	A FOLDED PENDULUM ISOLATOR FOR EVALUATING ACCELEROMETER PERFORMANCE. <i>Experimental Techniques</i> , 2009 , 33, 33-37	1.4	8
65	Structural identification of Humber Bridge for performance prognosis. <i>Smart Structures and Systems</i> , 2015 , 15, 665-682		8
64	Tracking bridge tilt behaviour using sensor fusion techniques. <i>Journal of Civil Structural Health Monitoring</i> , 2020 , 10, 543-555	2.9	7
63	Vision-based systems for structural deformation measurement: case studies. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018 , 171, 917-930	0.9	7
62	Vibration serviceability of Helix Bridge, Singapore. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2016 , 169, 611-624	0.9	7
61	Effects of human postures on energy dissipation from vibrating floors 2001 , 4317, 489		7
60	Structural Health Monitoring of short to medium span bridges in the United Kingdom. <i>Structural Monitoring and Maintenance</i> , 2016 , 3, 259-276		7

59	Wind tunnel section model study of aeroelastic performance for Ting Kau Bridge Deck. <i>Wind and Structures, an International Journal</i> , 2001 , 4, 367-382		7
58	Bayesian operational modal analysis with buried modes. <i>Mechanical Systems and Signal Processing</i> , 2019 , 121, 246-263	7.8	7
57	An accurate and distraction-free vision-based structural displacement measurement method integrating Siamese network based tracker and correlation-based template matching. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 179, 109506	4.6	7
56	Optimised ambient vibration testing of long span bridges. <i>Procedia Engineering</i> , 2017 , 199, 38-47		6
55	Boundary condition focused finite element model updating for bridges. <i>Engineering Structures</i> , 2019 , 198, 109514	4.7	6
54	Survivability assessment of fastnet lighthouse. <i>Coastal Engineering</i> , 2019 , 150, 18-38	4.8	6
53	Wolf Rock lighthouse: past developments and future survivability under wave loading. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20190027	3	6
52	Vibration monitoring and condition assessment of the University of Sheffield Arts Tower during retrofit. <i>Journal of Civil Structural Health Monitoring</i> , 2013 , 3, 153-168	2.9	6
51	Vibration testing of a steel girder bridge using cabled and wireless sensors. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2011 , 5, 249-258		6
50	Residual stiffness assessment of structurally failed reinforced concrete structure by dynamic testing and finite element model updating. <i>Experimental Mechanics</i> , 2003 , 43, 372-378	2.6	6
49	Analysis of experimental data from wind-induced response of a long span bridge. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1995 , 54-55, 13-24	3.7	6
48	The detection of defects in GRP lattice structures by vibration measurements. <i>NDT and E International</i> , 1991 , 24, 123-134	4.1	6
47	An Estimation of Pedestrian Action on Footbridges Using Computer Vision Approaches. <i>Frontiers in Built Environment</i> , 2019 , 5,	2.2	6
46	Posterior uncertainty, asymptotic law and Cram�r-Rao bound. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2113	4.5	6
45	Using inertial measurement units to identify medio-lateral ground reaction forces due to walking and swaying. <i>Journal of Sound and Vibration</i> , 2018 , 426, 90-110	3.9	6
44	Analysis of load test on composite I-girder bridge. <i>Journal of Civil Structural Health Monitoring</i> , 2017 , 7, 163-173	2.9	5
43	Wireless monitoring of the longitudinal displacement of the Tamar Suspension Bridge deck under changing environmental conditions 2011 ,		5
42	Time domain formulation of self-excited forces on bridge deck for wind tunnel experiment. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2003 , 91, 723-736	3.7	5

41	Monitoring of Singapore-Malaysia second link during construction 2001 ,		5
40	Filtering environmental load effects to enhance novelty detection on cable-supported bridge performance. <i>Bridge Maintenance, Safety and Management</i> , 2012 , 745-752		4
39	Effect of relative amplitude on bridge deck flutter. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2004 , 92, 493-508	3.7	4
38	Multivariate Monitoring with GPS Observations and Auxillary Multisensor Data. <i>GPS Solutions</i> , 2002 , 5, 58-69	4.4	4
37	Efficient dynamic performance assessment of a footbridge. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2005 , 158, 185-192	0.5	4
36	Full-Scale Dynamic Response of High-Rise Building to Lateral Loading. <i>Journal of Performance of Constructed Facilities</i> , 1998 , 12, 33-40	2	4
35	Bayesian operational modal analysis with multiple setups and multiple (possibly close) modes. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107261	7.8	4
34	Forced vibration testing of footbridges using calibrated human shaker and wireless sensors. <i>Procedia Engineering</i> , 2017 , 199, 417-422		3
33	Enhanced Vortex Shedding in a 183 m Industrial Chimney. <i>Advances in Structural Engineering</i> , 2014 , 17, 951-960	1.9	3
32	Structural Finite Element Model Updating Using Vibration Tests and Modal Analysis for NPL footbridge BHM demonstrator. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012105	0.3	3
31	Discussion of human resonant frequency 2001 ,		3
30	Operational deformations in long span bridges. <i>Bridge Maintenance, Safety and Management</i> , 2012 , 32-45		3
29	Numerical modelling for evaluating the TMD performance in an industrial chimney. <i>Wind and Structures, an International Journal</i> , 2013 , 17, 263-274		3
28	OPERATIONAL MODAL ANALYSIS OF BRODIE TOWER USING A BAYESIAN APPROACH 2017 ,		3
27	Structural modal testing using a human actuator. <i>Engineering Structures</i> , 2020 , 221, 111113	4.7	3
26	Instrument noise calibration with arbitrary sensor orientations. <i>Mechanical Systems and Signal Processing</i> , 2019 , 117, 879-892	7.8	3
25	Experimental and Analytical Study of Seismic Soil-Pile-Structure Interaction in Layered Soil Half-Space. <i>Journal of Earthquake Engineering</i> , 2014 , 18, 655-673	1.8	2
24	Direct observations of non-stationary bridge deck aeroelastic vibration in wind tunnel. <i>Journal of Sound and Vibration</i> , 2006 , 291, 202-214	3.9	2

23	Identification of unusual events in multichannel bridge monitoring data using wavelet transform and outlier analysis 2003 ,		2
22	Bridge health monitoring using wavelet analysis 2001 , 4317, 546		2
21	Measurement of contact forces between human and vibrating floors using fiber Bragg grating foot sensors 2001 ,		2
20	Vibration investigation for telecom structures with smartphone camera: case studies. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 757-766	2.9	2
19	Achievable precision of close modes in operational modal analysis: Wide band theory. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107016	7.8	2
18	A precise time-integration linear vehicle-bridge interaction method and dynamic sensitivity analysis. <i>Structures</i> , 2021 , 33, 4596-4603	3.4	2
17	Performance of a TMD to Mitigate Wind-Induced Interference Effects between Two Industrial Chimneys. <i>Actuators</i> , 2021 , 10, 12	2.4	2
16	Load-Carrying Capacity Evaluation of Damaged Reinforced Concrete Structures by Dynamic Testing and Finite-Element Model Updating. <i>Journal of Testing and Evaluation</i> , 2004 , 32, 11791	1	1
15	Ambient vibration testing and operational modal analysis of monopole telecoms structures. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 1077	2.9	1
14	Asymptotic identification uncertainty of well-separated modes in operational modal analysis with multiple setups. <i>Mechanical Systems and Signal Processing</i> , 2021 , 152, 107382	7.8	1
13	A Bayesian inverse dynamic approach for impulsive wave loading reconstruction: Theory, laboratory and field application. <i>Coastal Engineering</i> , 2021 , 168, 103920	4.8	1
12	Vibration stability of Orion laser facility. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2016 , 169, 583-594	0.9	0
11	Environmental loading of heritage structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20190276	3	0
10	Identifying modal properties of trees with Bayesian inference. <i>Agricultural and Forest Meteorology</i> , 2022 , 316, 108804	5.8	0
9	Fast computation of uncertainty lower bounds for state-space model-based operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2022 , 169, 108759	7.8	0
8	Influence of the Spatial Pressure Distribution of Breaking Wave Loading on the Dynamic Response of Wolf Rock Lighthouse. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 55	2.4	0
7	Uncertainty quantification in Bayesian operational modal analysis with multiple modes and multiple setups. <i>Mechanical Systems and Signal Processing</i> , 2022 , 164, 108205	7.8	0
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