

Onur Avci

List of Publications by Citations

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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.

72
papers

2,046
citations

18
h-index

44
g-index

76
ext. papers

2,913
ext. citations

2.6
avg, IF

5.98
L-index

#	Paper	IF	Citations
72	Real-time vibration-based structural damage detection using one-dimensional convolutional neural networks. <i>Journal of Sound and Vibration</i> , 2017 , 388, 154-170	3.9	498
71	1D convolutional neural networks and applications: A survey. <i>Mechanical Systems and Signal Processing</i> , 2021 , 151, 107398	7.8	277
70	A review of vibration-based damage detection in civil structures: From traditional methods to Machine Learning and Deep Learning applications. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107077	7.8	181
69	1-D CNNs for structural damage detection: Verification on a structural health monitoring benchmark data. <i>Neurocomputing</i> , 2018 , 275, 1308-1317	5.4	180
68	1-D Convolutional Neural Networks for Signal Processing Applications 2019 ,		89
67	Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks. <i>Journal of Sound and Vibration</i> , 2018 , 424, 158-172	3.9	84
66	Active vibration control of flexible cantilever plates using piezoelectric materials and artificial neural networks. <i>Journal of Sound and Vibration</i> , 2016 , 363, 33-53	3.9	81
65	Fault Detection and Severity Identification of Ball Bearings by Online Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8136-8147	8.9	51
64	Nonparametric Structural Damage Detection Algorithm for Ambient Vibration Response: Utilizing Artificial Neural Networks and Self-Organizing Maps. <i>Journal of Architectural Engineering</i> , 2016 , 22, 04015004	1.5	31
63	Optimization of chiral lattice based metastructures for broadband vibration suppression using genetic algorithms. <i>Journal of Sound and Vibration</i> , 2016 , 369, 50-62	3.9	28
62	Simplified Vibration Serviceability Evaluation of Slender Monumental Stairs. <i>Journal of Structural Engineering</i> , 2015 , 141, 04015017	3	27
61	Blind identification of the Millikan Library from earthquake data considering soil-structure interaction. <i>Structural Control and Health Monitoring</i> , 2016 , 23, 684-706	4.5	27
60	Self-Organizing Maps for Structural Damage Detection: A Novel Unsupervised Vibration-Based Algorithm. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015043	2	26
59	Structural Damage Detection in Real Time: Implementation of 1D Convolutional Neural Networks for SHM Applications. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 49-54	0.3	23
58	Sensing and Monitoring for Stadium Structures: A Review of Recent Advances and a Forward Look. <i>Frontiers in Built Environment</i> , 2017 , 3,	2.2	23
57	Iterated square root unscented Kalman filter for nonlinear states and parameters estimation: three DOF damped system. <i>Journal of Civil Structural Health Monitoring</i> , 2015 , 5, 493-508	2.9	22
56	Dynamic Forces Induced by a Single Pedestrian: A Literature Review. <i>Applied Mechanics Reviews</i> , 2017 , 69,	8.6	20

55	Review of Pedestrian Load Models for Vibration Serviceability Assessment of Floor Structures. <i>Vibration</i> , 2019 , 2, 1-24	2	18
54	Recent Issues on Stadium Monitoring and Serviceability: A Review. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 411-416	0.3	17
53	Diaphragm shear strength and stiffness of aluminum roof panel assemblies. <i>Thin-Walled Structures</i> , 2016 , 106, 51-60	4.7	16
52	Threat and vulnerability risk assessment for existing subway stations: A simplified approach. <i>Case Studies on Transport Policy</i> , 2018 , 6, 663-673	2.7	15
51	Amplitude-Dependent Damping in Vibration Serviceability: Case of a Laboratory Footbridge. <i>Journal of Architectural Engineering</i> , 2016 , 22, 04016005	1.5	15
50	A Comparative Assessment of Nonlinear State Estimation Methods for Structural Health Monitoring. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 45-54	0.3	13
49	Novel Framework for Vibration Serviceability Assessment of Stadium Grandstands Considering Durations of Vibrations. <i>Journal of Structural Engineering</i> , 2018 , 144, 04017214	3	13
48	Observations from Vibration Testing of In-Situ Structures 2006 , 1		13
47	A numerical and experimental investigation of a special type of floating-slab tracks. <i>Engineering Structures</i> , 2020 , 215, 110734	4.7	12
46	Quantification of Structural Damage with Self-Organizing Maps. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 47-57	0.3	12
45	Optimization of linear zigzag insert metastructures for low-frequency vibration attenuation using genetic algorithms. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 625-641	7.8	12
44	Vibration annoyance assessment of train induced excitations from tunnels embedded in rock. <i>Science of the Total Environment</i> , 2020 , 711, 134528	10.2	12
43	Convolutional Neural Networks for Real-Time and Wireless Damage Detection. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 129-136	0.3	11
42	Dynamic Testing of a Laboratory Stadium Structure 2016 ,		10
41	A Study on Effective Mass of One Way Joist Supported Systems 2015 ,		10
40	Modal Parameter Variations due to Joist Bottom Chord Extension Installations on Laboratory Footbridges. <i>Journal of Performance of Constructed Facilities</i> , 2015 , 29, 04014140	2	10
39	Effect of Bottom Chord Extensions on the Static Flexural Stiffness of Open-Web Steel Joists. <i>Journal of Performance of Constructed Facilities</i> , 2012 , 26, 620-632	2	10
38	Retrofitting Steel Joist Supported Footbridges for Improved Vibration Response 2012 ,		10

37	Nonlinear Damping in Floor Vibrations Serviceability: Verification on a Laboratory Structure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 139-145	0.3	10
36	A novel video-vibration monitoring system for walking pattern identification on floors. <i>Advances in Engineering Software</i> , 2020 , 139, 102710	3.6	10
35	Vibrations Serviceability of a Medical Facility Floor for Sensitive Equipment Replacement: Evaluation with Sparse In Situ Data. <i>Practice Periodical on Structural Design and Construction</i> , 2019 , 24, 05018006	1.2	10
34	2016 ,		9
33	Simplified Vibration Response Prediction for Slender Monumental Stairs 2014 ,		9
32	Vibrations Assessment of a Hospital Floor for a Magnetic Resonance Imaging Unit (MRI) Replacement 2013 ,		9
31	Vibration Testing of Joist Supported Footbridges 2010 ,		8
30	Unreinforced Masonry Façade Assessment of a Historic Building for Excessive Displacements Due to a Nearby Subway Construction. <i>Practice Periodical on Structural Design and Construction</i> , 2019 , 24, 05018005	1.2	6
29	A methodological approach towards evaluating structural damage severity using 1D CNNs. <i>Structures</i> , 2021 , 34, 4435-4446	3.4	5
28	Finite-Element Analysis of Cantilever Slab Deflections with ANSYS SOLID65 3D Reinforced-Concrete Element with Cracking and Crushing Capabilities. <i>Practice Periodical on Structural Design and Construction</i> , 2019 , 24, 05018007	1.2	5
27	Structural Health Monitoring with Self-Organizing Maps and Artificial Neural Networks. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 237-246	0.3	5
26	Seismic Assessment of Existing Lowrise and Midrise Reinforced Concrete Buildings Using the 2014 Qatar Construction Specification. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018028	1.5	5
25	Design of Experiments Study to Obtain a Robust 3D Computational Bridge Model. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2012 , 287-297	0.3	5
24	2015 ,		4
23	Web Crippling Strength of Steel Deck Subjected to End One Flange Loading. <i>Journal of Structural Engineering</i> , 2004 , 130, 697-707	3	4
22	Analysis of floor vibration evaluation methods using a large database of floors framed with W-Shaped members subjected to walking excitation. <i>Journal of Constructional Steel Research</i> , 2020 , 164, 105764	3.8	4
21	Effective standoff in standing seam roof systems. <i>Journal of Constructional Steel Research</i> , 2021 , 180, 106590	3.8	4
20	Nonexplosive Deconstruction of Steel Girder Highway Bridges. <i>Journal of Performance of Constructed Facilities</i> , 2017 , 31, 04016087	2	3

19	Fundamentals of Highway Bridge Demolition 2013 ,		3
18	EFFICIENCY OF 1D CNNs IN FINITE ELEMENT MODEL PARAMETER ESTIMATION USING SYNTHETIC DYNAMIC RESPONSES 2020 ,		3
17	An Overview on Floor Vibration Serviceability Evaluation Methods with a Large Database of Recorded Floor Data. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 91-101	0.3	3
16	Structural Damage Detection in Civil Engineering with Machine Learning: Current State of the Art. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 223-229	0.3	3
15	Vibrations Assessment of Existing Building Foundations Due to Moving Trains in Underground Tunnels. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 65-73	0.3	3
14	Investigation of Uplift Pressures on a Drainage Shaft Using ANSYS SOLID185 Elements and Drucker-Prager Failure Criterion for the Surrounding Rock Stratum. <i>Journal of Performance of Constructed Facilities</i> , 2020 , 34, 04019083	2	3
13	Vibration Suppression in Metastructures Using Zigzag Inserts Optimized by Genetic Algorithms. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 275-283	0.3	2
12	Parameter identification for nonlinear biological phenomena modeled by S-systems 2015 ,		2
11	Effects of Bottom Chord Extensions on the Static and Dynamic Performance of Steel Joist Supported Floors 2008 ,		2
10	Genetic Algorithm use for Internally Resonating Lattice Optimization: Case of a Beam-Like Metastructure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 289-295	0.3	2
9	One-Dimensional Convolutional Neural Networks for Real-Time Damage Detection of Rotating Machinery. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 73-83	0.3	2
8	A Review of Experimental Studies on Laboratory Grandstands 2020 , 363-372		1
7	Effect of Non-Structural Components on the Dynamic Response of Steel-Framed Floors: Tests Before and After Component Installations. <i>Frontiers in Built Environment</i> , 2021 , 7,	2.2	1
6	Operational modal analysis and finite element model updating of a 230 m tall tower. <i>Structures</i> , 2022 , 37, 154-167	3.4	1
5	. <i>IEEE Access</i> , 2021 , 9, 139260-139270	3.5	1
4	Control of Plate Vibrations with Artificial Neural Networks and Piezoelectricity. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020 , 293-301	0.3	1
3	An Overview of Deep Learning Methods Used in Vibration-Based Damage Detection in Civil Engineering. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 93-98	0.3	0
2	A New Benchmark Problem for Structural Damage Detection: Bolt Loosening Tests on a Large-Scale Laboratory Structure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 15-22	0.3	

- 1 Operational Modal Analysis and Finite Element Model Updating of a 53-Story Building. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 83-91 0.3