

Juan M Caicedo

List of Publications by Year in descending order

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57
papers

1,604
citations

430874

18
h-index

302126

39
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62
all docs

62
docs citations

62
times ranked

1275
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Excitation Technique and Eigensystem Realization Algorithm for Phase I of the IASC-ASCE Benchmark Problem: Simulated Data. Journal of Engineering Mechanics - ASCE, 2004, 130, 49-60.	2.9	212
2	Experimental Verification of Multiinput Seismic Control Strategies for Smart Dampers. Journal of Engineering Mechanics - ASCE, 2001, 127, 1152-1164.	2.9	172
3	Phase I Benchmark Control Problem for Seismic Response of Cable-Stayed Bridges. Journal of Structural Engineering, 2003, 129, 857-872.	3.4	167
4	Prediction of fatigue crack growth in steel bridge components using acoustic emission. Journal of Constructional Steel Research, 2011, 67, 1254-1260.	3.9	158
5	PRACTICAL GUIDELINES FOR THE NATURAL EXCITATION TECHNIQUE (NEXT) AND THE EIGENSYSTEM REALIZATION ALGORITHM (ERA) FOR MODAL IDENTIFICATION USING AMBIENT VIBRATION. Experimental Techniques, 2011, 35, 52-58.	1.5	115
6	Finite element model updating: Multiple alternatives. Engineering Structures, 2008, 30, 3724-3730.	5.3	107
7	Modal Identification through Ambient Vibration: Comparative Study. Journal of Engineering Mechanics - ASCE, 2009, 135, 759-770.	2.9	76
8	Damage Detection Accommodating Varying Environmental Conditions. Structural Health Monitoring, 2006, 5, 155-172.	7.5	63
9	Bayesian model updating and prognosis of fatigue crack growth. Engineering Structures, 2012, 45, 53-61.	5.3	48
10	Investigating the role of feedstock properties and process conditions on products formed during the hydrothermal carbonization of organics using regression techniques. Bioresource Technology, 2015, 187, 263-274.	9.6	44
11	Acoustic emission Bayesian source location: Onset time challenge. Mechanical Systems and Signal Processing, 2019, 123, 483-495.	8.0	39
12	Probabilistic Prognosis of Fatigue Crack Growth Using Acoustic Emission Data. Journal of Engineering Mechanics - ASCE, 2012, 138, 1101-1111.	2.9	37
13	Modal Identification Using Mobile Sensors under Ambient Excitation. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	32
14	Hsu-Nielsen source acoustic emission data on a concrete block. Data in Brief, 2019, 23, 103813.	1.0	29
15	An exploration into inquiry-based learning by a multidisciplinary group of higher education faculty. Higher Education, 2010, 59, 765-783.	4.4	26
16	Experimental validation of structural health monitoring for flexible bridge structures. Structural Control and Health Monitoring, 2005, 12, 425-443.	4.0	22
17	Benchmark problem for human activity identification using floor vibrations. Expert Systems With Applications, 2016, 62, 263-272.	7.6	21
18	Fast mode identification technique for online monitoring. Structural Control and Health Monitoring, 2011, 18, 416-429.	4.0	14

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19	Deterministic and probabilistic fatigue prognosis of cracked specimens using acoustic emissions. Journal of Constructional Steel Research, 2012, 76, 68-74.	3.9	13
20	Walking Speed Measurement Technology: a Review. Current Geriatrics Reports, 2021, 10, 32-41.	1.1	13
21	Reducing Epistemic Uncertainty Using a Model Updating Cognitive System. Advances in Structural Engineering, 2011, 14, 55-65.	2.4	12
22	Effects of Cable Dynamics in the Modeling of Cable-Stayed Bridges Under Seismic Excitation. International Journal of Structural Stability and Dynamics, 2015, 15, 1450061.	2.4	11
23	A Stereovision Deformation Measurement System for Transfer Length Estimates in Prestressed Concrete. Experimental Mechanics, 2018, 58, 1035-1048.	2.0	10
24	Damping in Transient Pressurized Flows. Journal of Hydraulic Engineering, 2019, 145, .	1.5	10
25	Force Estimation and Event Localization (FEEL) of Impacts Using Structural Vibrations. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	9
26	A Study of 13.5-MHz Coupled-Loop Wireless Power Transfer Under Concrete and Near Metal. IEEE Sensors Journal, 2018, 18, 9848-9856.	4.7	8
27	Probabilistic Force Estimation and Event Localization (PFEEL) algorithm. Engineering Structures, 2022, 252, 113535.	5.3	8
28	Uncertainty Quantification for Damping in Transient Pressure Oscillations. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	7
29	RGB-D-DIC technique for low-cost 3D displacement fields measurements. Engineering Structures, 2019, 197, 109457.	5.3	7
30	Finding Plausible Optimal Solutions in Engineering Problems Using an Adaptive Genetic Algorithm. Advances in Civil Engineering, 2019, 2019, 1-9.	0.7	7
31	Reducing MCMC Computational Cost with a Two Layered Bayesian Approach. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 291-297.	0.5	7
32	Human Activity Recognition Using Multinomial Logistic Regression. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 363-372.	0.5	6
33	Using a Service-Oriented Approach to Simulate Integrated Urban Infrastructure Systems. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	6
34	A probabilistic approach for estimating water permeability in pressure-driven membranes. Journal of Molecular Modeling, 2016, 22, 185.	1.8	5
35	Evaluation of a Time Reversal Method with Dynamic Time Warping Matching Function for Human Fall Detection Using Structural Vibrations. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 171-176.	0.5	5
36	Including Uncertainty in Modeling the Dynamic Response of a Large-Scale 200 kN Magneto-Rheological Damper. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.7	4

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37	Modeling the Effects of a Human Standing on a Structure Using a Closed Loop Control System. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	4
38	Development and Implementation of a Cyberinfrastructure Framework for Research in Nondestructive Evaluation Using Acoustic Emission Data. Journal of Computing in Civil Engineering, 2014, 28, .	4.7	3
39	Fuzzy pattern recognition technique for crack propagation on earplate connection of guyed mast under wind load. Structural Control and Health Monitoring, 2017, 24, e2010.	4.0	3
40	Modeling Human-Structure Interaction Using Control Models: External Excitation. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 183-190.	0.5	3
41	Acceleration Signal Categorization Using Support Vector Machines. Experimental Techniques, 2019, 43, 359-368.	1.5	3
42	Modeling Human Structure Interaction Using a Close Loop Control System. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 101-108.	0.5	3
43	Bayesian Finite Element Model Updating Using Static and Dynamic Data. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 395-402.	0.5	2
44	A procedure to develop scalable models for the transient response of sleepers in conventional and high-speed railway lines and implementation to the vertical vibration mode. Soil Dynamics and Earthquake Engineering, 2011, 31, 502-511.	3.8	1
45	Uncertainty quantification of acoustic emission filtering techniques. , 2012, , .		1
46	Using P-Box and PiFE to Express Uncertainty in Model Updating. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 81-88.	0.5	1
47	Surrogate-Based Approach to Calculate the Bayes Factor. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 277-281.	0.5	1
48	Bayesian Finite Element Model Updating for Crack Growth. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 861-866.	0.5	1
49	Transfer Length Probabilistic Model Updating in High Performance Concrete. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 325-330.	0.5	1
50	Metamodeling of Model Evidence. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 307-313.	0.5	1
51	Modeling Human-Structure Interaction Using Control Models When Bobbing on a Flexible Structure. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 27-34.	0.5	1
52	Effects of the Structural Identification on the Appearance of Multiple Solutions in Model Updating. , 2009, , .		0
53	Model updating and prognosis of acoustic emission data in compact test specimens under cyclic loading. Proceedings of SPIE, 2011, , .	0.8	0
54	Finite Element Model of High Strength Reduced Modulus High Performance Concrete. , 2016, , .		0

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55	Modal Identification of a Full-Scale Building Under Seismic Excitation Using the Fast Mode Identification Technique. <i>Experimental Techniques</i> , 2016, 40, 1275-1284.	1.5	0
56	Probabilistic Model Updating of Controller Models for Groups of People in a Standing Position. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 131-136.	0.5	0
57	Identificaci3n de formas modales bajo excitaci3n arm3nica usando sensores m3viles. <i>Ingenieria Y Competitividad</i> , 2017, 19, 159.	0.1	0