

Juan M Caicedo

List of Publications by Year in descending order

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57
papers

1,604
citations

430874

18
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302126

39
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62
all docs

62
docs citations

62
times ranked

1275
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic Force Estimation and Event Localization (PFEEL) algorithm. <i>Engineering Structures</i> , 2022, 252, 113535.	5.3	8
2	Force Estimation and Event Localization (FEEL) of Impacts Using Structural Vibrations. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	9
3	Walking Speed Measurement Technology: a Review. <i>Current Geriatrics Reports</i> , 2021, 10, 32-41.	1.1	13
4	Modeling Human-Structure Interaction Using Control Models When Bobbing on a Flexible Structure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020, , 27-34.	0.5	1
5	Modeling Human-Structure Interaction Using Control Models: External Excitation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 183-190.	0.5	3
6	Damping in Transient Pressurized Flows. <i>Journal of Hydraulic Engineering</i> , 2019, 145, .	1.5	10
7	Uncertainty Quantification for Damping in Transient Pressure Oscillations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	2.6	7
8	RGB-D-DIC technique for low-cost 3D displacement fields measurements. <i>Engineering Structures</i> , 2019, 197, 109457.	5.3	7
9	Acoustic emission Bayesian source location: Onset time challenge. <i>Mechanical Systems and Signal Processing</i> , 2019, 123, 483-495.	8.0	39
10	Acceleration Signal Categorization Using Support Vector Machines. <i>Experimental Techniques</i> , 2019, 43, 359-368.	1.5	3
11	Finding Plausible Optimal Solutions in Engineering Problems Using an Adaptive Genetic Algorithm. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-9.	0.7	7
12	Hsu-Nielsen source acoustic emission data on a concrete block. <i>Data in Brief</i> , 2019, 23, 103813.	1.0	29
13	Modeling the Effects of a Human Standing on a Structure Using a Closed Loop Control System. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	2.9	4
14	A Stereovision Deformation Measurement System for Transfer Length Estimates in Prestressed Concrete. <i>Experimental Mechanics</i> , 2018, 58, 1035-1048.	2.0	10
15	A Study of 13.5-MHz Coupled-Loop Wireless Power Transfer Under Concrete and Near Metal. <i>IEEE Sensors Journal</i> , 2018, 18, 9848-9856.	4.7	8
16	Including Uncertainty in Modeling the Dynamic Response of a Large-Scale 200 kN Magneto-Rheological Damper. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017, 3, .	1.7	4
17	Fuzzy pattern recognition technique for crack propagation on earplate connection of guyed mast under wind load. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2010.	4.0	3
18	Modal Identification Using Mobile Sensors under Ambient Excitation. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	4.7	32

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19	Surrogate-Based Approach to Calculate the Bayes Factor. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 277-281.	0.5	1
20	Identificaci3n de formas modales bajo excitaci3n arm3nica usando sensores m3viles. Ingenieria Y Competitividad, 2017, 19, 159.	0.1	0
21	Finite Element Model of High Strength Reduced Modulus High Performance Concrete. , 2016, , .		0
22	A probabilistic approach for estimating water permeability in pressure-driven membranes. Journal of Molecular Modeling, 2016, 22, 185.	1.8	5
23	Benchmark problem for human activity identification using floor vibrations. Expert Systems With Applications, 2016, 62, 263-272.	7.6	21
24	Modal Identification of a Full-Scale Building Under Seismic Excitation Using the Fast Mode Identification Technique. Experimental Techniques, 2016, 40, 1275-1284.	1.5	0
25	Transfer Length Probabilistic Model Updating in High Performance Concrete. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 325-330.	0.5	1
26	Probabilistic Model Updating of Controller Models for Groups of People in a Standing Position. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 131-136.	0.5	0
27	Metamodeling of Model Evidence. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 307-313.	0.5	1
28	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
29	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
30	Human Activity Recognition Using Multinomial Logistic Regression. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 363-372.	0.5	6
31	Using a Service-Oriented Approach to Simulate Integrated Urban Infrastructure Systems. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	6
32	Reducing MCMC Computational Cost with a Two Layered Bayesian Approach. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 291-297.	0.5	7
33	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
34	Modeling Human-Structure Interaction Using a Close Loop Control System. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 101-108.	0.5	3
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	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

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37	Uncertainty quantification of acoustic emission filtering techniques. , 2012, , .		1
38	Probabilistic Prognosis of Fatigue Crack Growth Using Acoustic Emission Data. Journal of Engineering Mechanics - ASCE, 2012, 138, 1101-1111.	2.9	37
39	Deterministic and probabilistic fatigue prognosis of cracked specimens using acoustic emissions. Journal of Constructional Steel Research, 2012, 76, 68-74.	3.9	13
40	Bayesian model updating and prognosis of fatigue crack growth. Engineering Structures, 2012, 45, 53-61.	5.3	48
41	Reducing Epistemic Uncertainty Using a Model Updating Cognitive System. Advances in Structural Engineering, 2011, 14, 55-65.	2.4	12
42	Model updating and prognosis of acoustic emission data in compact test specimens under cyclic loading. Proceedings of SPIE, 2011, , .	0.8	0
43	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
44	Fast mode identification technique for online monitoring. Structural Control and Health Monitoring, 2011, 18, 416-429.	4.0	14
45	Prediction of fatigue crack growth in steel bridge components using acoustic emission. Journal of Constructional Steel Research, 2011, 67, 1254-1260.	3.9	158
46	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
47	Bayesian Finite Element Model Updating Using Static and Dynamic Data. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 395-402.	0.5	2
48	Bayesian Finite Element Model Updating for Crack Growth. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 861-866.	0.5	1
49	An exploration into inquiry-based learning by a multidisciplinary group of higher education faculty. Higher Education, 2010, 59, 765-783.	4.4	26
50	Modal Identification through Ambient Vibration: Comparative Study. Journal of Engineering Mechanics - ASCE, 2009, 135, 759-770.	2.9	76
51	Effects of the Structural Identification on the Appearance of Multiple Solutions in Model Updating. , 2009, , .		0
52	Finite element model updating: Multiple alternatives. Engineering Structures, 2008, 30, 3724-3730.	5.3	107
53	Damage Detection Accommodating Varying Environmental Conditions. Structural Health Monitoring, 2006, 5, 155-172.	7.5	63
54	Experimental validation of structural health monitoring for flexible bridge structures. Structural Control and Health Monitoring, 2005, 12, 425-443.	4.0	22

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55	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
56	Phase I Benchmark Control Problem for Seismic Response of Cable-Stayed Bridges. Journal of Structural Engineering, 2003, 129, 857-872.	3.4	167
57	Experimental Verification of Multiinput Seismic Control Strategies for Smart Dampers. Journal of Engineering Mechanics - ASCE, 2001, 127, 1152-1164.	2.9	172