

Stefano Manzoni

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

831
citations

516710

16
h-index

526287

27
g-index

69
all docs

69
docs citations

69
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of contact forces and patch features by means of accelerometers fixed inside the tire to improve future car active control. <i>Vehicle System Dynamics</i> , 2006, 44, 3-13.	3.7	107
2	Improved resistive shunt by means of negative capacitance: new circuit, performances and multi-mode control. <i>Smart Materials and Structures</i> , 2016, 25, 075033.	3.5	63
3	Damping behavior of 316L lattice structures produced by Selective Laser Melting. <i>Materials and Design</i> , 2018, 160, 1010-1018.	7.0	50
4	Quantification of changes in modal parameters due to the presence of passive people on a slender structure. <i>Journal of Sound and Vibration</i> , 2014, 333, 5641-5652.	3.9	49
5	Laser-triangulation device for in-line measurement of road texture at medium and high speed. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2225-2234.	8.0	43
6	Multi-mode passive piezoelectric shunt damping by means of matrix inequalities. <i>Journal of Sound and Vibration</i> , 2017, 405, 287-305.	3.9	35
7	Modelling and control of an adaptive tuned mass damper based on shape memory alloys and eddy currents. <i>Journal of Sound and Vibration</i> , 2015, 349, 18-38.	3.9	33
8	Vibration attenuation by means of piezoelectric transducer shunted to synthetic negative capacitance. <i>Journal of Sound and Vibration</i> , 2012, 331, 4644-4657.	3.9	30
9	Piezoelectric resonant shunt enhancement by negative capacitances: Optimisation, performance and resonance cancellation. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2581-2606.	2.5	29
10	Vibration Control by Means of Piezoelectric Actuators Shunted with Impedances: Performance and Robustness Analysis. <i>Shock and Vibration</i> , 2015, 2015, 1-30.	0.6	25
11	Scaling of mode shapes from operational modal analysis using harmonic forces. <i>Journal of Sound and Vibration</i> , 2017, 407, 128-143.	3.9	25
12	Vibro-acoustic characterization of railway wheels. <i>Applied Acoustics</i> , 2008, 69, 530-545.	3.3	21
13	Optimization of the current flowing technique aimed at semi-passive multi-modal vibration reduction. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 298-312.	2.6	21
14	Evaluation of the dynamic behaviour of steel staircases damped by the presence of people. <i>Engineering Structures</i> , 2016, 115, 165-178.	5.3	19
15	Improved shunt damping with two negative capacitances: An efficient alternative to resonant shunt. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2222-2238.	2.5	19
16	Global scaling of operational modal analysis modes with the OMAH method. <i>Mechanical Systems and Signal Processing</i> , 2019, 117, 52-64.	8.0	19
17	PEOPLE-INDUCED VIBRATIONS OF CIVIL STRUCTURES: IMAGE-BASED MEASUREMENT OF CROWD MOTION. <i>Experimental Techniques</i> , 2011, 35, 71-79.	1.5	17
18	A vibration-based approach for health monitoring of tie-rods under uncertain environmental conditions. <i>Mechanical Systems and Signal Processing</i> , 2022, 167, 108547.	8.0	17

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19	Bless: A fiber optic sedimenter. Flow Measurement and Instrumentation, 2011, 22, 447-455.	2.0	16
20	Estimation of Axial Load in Tie-Rods Using Experimental and Operational Modal Analysis. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	15
21	Experimental investigation of tyre dynamics by means of MEMS accelerometers fixed on the liner. Vehicle System Dynamics, 2008, 46, 1013-1028.	3.7	14
22	Measurement and analysis of tyre and tread block dynamics due to contact phenomena. Vehicle System Dynamics, 2011, 49, 855-869.	3.7	14
23	Vibration control with piezoelectric elements: The indirect measurement of the modal capacitance and coupling factor. Mechanical Systems and Signal Processing, 2021, 151, 107350.	8.0	13
24	The Behaviour of Mistuned Piezoelectric Shunt Systems and Its Estimation. Shock and Vibration, 2016, 2016, 1-18.	0.6	12
25	A multi-modal adaptive tuned mass damper based on shape memory alloys. Journal of Intelligent Material Systems and Structures, 2019, 30, 536-555.	2.5	11
26	A New Electrical Circuit With Negative Capacitances to Enhance Resistive Shunt Damping. , 2015, , .		9
27	LRLC-shunted piezoelectric vibration absorber. Journal of Sound and Vibration, 2020, 474, 115268.	3.9	9
28	The Monitoring of Palazzo Lombardia in Milan. Shock and Vibration, 2017, 2017, 1-13.	0.6	7
29	Enhancement of the broadband vibration attenuation of a resistive piezoelectric shunt. Journal of Intelligent Material Systems and Structures, 2021, 32, 2174-2189.	2.5	7
30	An approach to predict human-structure interaction in the case of staircases. Archive of Applied Mechanics, 2019, 89, 2167-2191.	2.2	6
31	Vibration-Based Damage Feature for Long-Term Structural Health Monitoring Under Realistic Environmental and Operational Variability. Structural Integrity, 2022, , 289-307.	1.4	6
32	Automatic Detection of Real Damage in Operating Tie-Rods. Sensors, 2022, 22, 1370.	3.8	6
33	Human-structure interaction: convolution-based estimation of human-induced vibrations using experimental data. Mechanical Systems and Signal Processing, 2022, 167, 108511.	8.0	5
34	Verification of Crowd Dynamic Excitation Estimated from Image Processing Techniques. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 205-216.	0.5	4
35	Experimental and Numerical Studies of the People Effects on a Structure Modal Parameters. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 17-25.	0.5	4
36	Empirical Models for the Health Monitoring of High-Rise Buildings: The Case of Palazzo Lombardia. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 169-175.	0.5	4

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37	Guidelines for the layout and tuning of piezoelectric resonant shunt with negative capacitances in terms of dynamic compliance, mobility and accelerance. Journal of Intelligent Material Systems and Structures, 2021, 32, 2092-2107.	2.5	3
38	The reduction of operational amplifier electrical outputs to improve piezoelectric shunts with negative capacitance. Journal of Sound and Vibration, 2021, 506, 116163.	3.9	3
39	Numerical Investigation on the Measurement Uncertainty in Operational Modal Analysis of a Civil Structure. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 191-199.	0.5	3
40	Effects of People Occupancy on the Modal Properties of a Stadium Grandstand. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 289-298.	0.5	3
41	Numerical Model for Human Induced Vibrations. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 179-186.	0.5	3
42	DESIGN AND INSTALLATION OF A PERMANENT MONITORING SYSTEM FOR PALAZZO LOMBARDIA IN MILANO, ITALY. , 2016, , .		3
43	Data Driven Damage Detection Strategy Under Uncontrolled Environment. Lecture Notes in Civil Engineering, 2023, , 764-773.	0.4	3
44	An adaptive tuned mass damper based on shape memory alloys with an extended range of frequency. , 2014, , .		2
45	Overview of the New OMAH Technique for Scaling OMA Mode Shapes. Sound and Vibration, 2018, 52, 1-5.	0.3	2
46	Metrological Performances of Fiber Bragg Grating Sensors and Comparison with Electrical Strain Gauges. Key Engineering Materials, 2011, 495, 53-57.	0.4	1
47	Maximum Likelihood approach to calibrate hysteretic transducers. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1842-1854.	5.0	1
48	One Year Monitoring of a Wind Turbine Foundations. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 107-110.	0.5	1
49	Enhanced Vibration Damping by Means of a Negative Capacitance. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 75-81.	0.5	1
50	Monitoring Bridge Scour by Bragg Grating Array. , 2010, , .		1
51	Experimental Evaluation of the Driving Parameters in Human-Structure Interaction. Vibration, 2022, 5, 121-140.	1.9	1
52	Time Reliability of Empirical Models for the Prediction of Building Parameters: The Case of Palazzo Lombardia. Lecture Notes in Civil Engineering, 2023, , 186-194.	0.4	1
53	An Application of Bragg grating Array to Measure Real-Time Scour Depth at River Bridges. , 2010, , .		0
54	Bridge pier scour measurement by means of Bragg grating arrays. EPJ Web of Conferences, 2010, 6, 34004.	0.3	0

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55	Metrological Performances of Smart Structures Based on Bragg Grating Sensors. Key Engineering Materials, 2011, 495, 41-44.	0.4	0
56	The Prediction of Vibrations for Light Structures in Presence of Moving People. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 23-28.	0.5	0
57	Adaptive Multi-modal Tuned Mass Dampers Based on Shape Memory Alloys: Design and Validation. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 151-156.	0.5	0
58	Introduction to Spectral and Correlation Analysis: Basic Measurements and Methods. , 2020, , 1-30.		0
59	Bridge Pier Scour Measurement by Means of Bragg Grating Arrays: Laboratory Tests and Field Applications. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 183-190.	0.5	0
60	Analysis and Optimization of the Current Flowing Technique for Semi-passive Multi-Modal Vibration Reduction. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 283-293.	0.5	0
61	Operational Modal Analysis of a Slender Footbridge to Serviceability Purposes. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 403-414.	0.5	0
62	SSDI Technique Evolution to Improve Attenuation Performances with Random Disturbances. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 99-105.	0.5	0
63	QUANTIFICATION OF THE STRUCTURAL RESPONSE OF A STAIRCASE DAMPED BY THE PRESENCE OF PEOPLE: NUMERICAL MODEL AND EXPERIMENTAL TESTS. , 2014, , .		0
64	Identification of Tie-Rods Tensile Axial Force in Civil Structures. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 59-69.	0.5	0
65	Summarizing Results for Scaling OMA Mode Shapes by the OMAH Technique. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 1-8.	0.5	0
66	Performance Characterization of Modal Identification Algorithms, the Case of Automated Modal Analysis of Palazzo Lombardia. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 7-16.	0.5	0
67	Quantitative Study on the Modal Parameters Estimated Using the PLSCF and the MITD Methods and an Automated Modal Analysis Algorithm. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 159-168.	0.5	0