

Luca Zanotti Fragonara

List of Publications by Year in descending order

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57
papers

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61
all docs

61
docs citations

61
times ranked

623
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration-Based Monitoring and Diagnosis of Cultural Heritage: A Methodological Discussion in Three Examples. <i>International Journal of Architectural Heritage</i> , 2016, 10, 375-395.	3.1	70
2	Global Sensitivity-Based Model Updating for Heritage Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2015, 30, 620-635.	9.8	66
3	Dynamic investigation on the Mirandola bell tower in post-earthquake scenarios. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 313-337.	4.1	46
4	A multi-objective genetic algorithm strategy for robust optimal sensor placement. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1185-1202.	9.8	45
5	An experimental study of the feasibility of phase-based video magnification for damage detection and localisation in operational deflection shapes. <i>Strain</i> , 2020, 56, e12336.	2.4	38
6	Dynamic Characterization of Complex Masonry Structures: The Sanctuary of Vicoforte. <i>International Journal of Architectural Heritage</i> , 2011, 5, 296-314.	3.1	34
7	System identification via Fast Relaxed Vector Fitting for the Structural Health Monitoring of masonry bridges. <i>Structures</i> , 2021, 30, 277-293.	3.6	34
8	Semi-active control of the rocking motion of monolithic art objects. <i>Journal of Sound and Vibration</i> , 2016, 374, 1-16.	3.9	33
9	Amplitude dependence of equivalent modal parameters in monitored buildings during earthquake swarms. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 2399-2417.	4.4	33
10	GAPointNet: Graph attention based point neural network for exploiting local feature of point cloud. <i>Neurocomputing</i> , 2021, 438, 122-132.	5.9	32
11	Improving Depth Resolution of Ultrasonic Phased Array Imaging to Inspect Aerospace Composite Structures. <i>Sensors</i> , 2020, 20, 559.	3.8	29
12	A machine learning approach for automatic operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108813.	8.0	29
13	Monitoring of masonry historical constructions: 10 years of static monitoring of the world's largest oval dome. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1988.	4.0	28
14	Machine learning-based automatic operational modal analysis: A structural health monitoring application to masonry arch bridges. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	4.0	28
15	Comparison of restoring force models for the identification of structures with hysteresis and degradation. <i>Journal of Sound and Vibration</i> , 2013, 332, 6982-6999.	3.9	27
16	RoIFusion: 3D Object Detection From LiDAR and Vision. <i>IEEE Access</i> , 2021, 9, 51710-51721.	4.2	27
17	Comparison of semi-active control strategies for rocking objects under pulse and harmonic excitations. <i>Mechanical Systems and Signal Processing</i> , 2017, 90, 175-188.	8.0	26
18	Identification of the hysteretic behaviour of a partial-strength steel-concrete moment-resisting frame structure subject to pseudodynamic tests. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 1883-1903.	4.4	21

#	ARTICLE	IF	CITATIONS
19	Treed gaussian process for manufacturing imperfection identification of pultruded GFRP thin-walled profile. <i>Composite Structures</i> , 2020, 254, 112882.	5.8	20
20	Using Video Processing for the Full-Field Identification of Backbone Curves in Case of Large Vibrations. <i>Sensors</i> , 2019, 19, 2345.	3.8	19
21	A Computational Methodology for Assessing the Time-Dependent Structural Performance of Electric Road Infrastructures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 701-716.	9.8	17
22	Structural Health Monitoring through Vibration-Based Approaches. <i>Shock and Vibration</i> , 2019, 2019, 1-5.	0.6	17
23	Video Processing Techniques for the Contactless Investigation of Large Oscillations. <i>Journal of Physics: Conference Series</i> , 2019, 1249, 012004.	0.4	14
24	Application of fibre optic sensing systems to measure rotor blade structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2021, 158, 107758.	8.0	13
25	Experimental modal analysis of structural systems by using the fast relaxed vector fitting method. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2695.	4.0	12
26	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles. <i>Sensors</i> , 2019, 19, 1824.	3.8	11
27	Recursive partitioning and Gaussian Process Regression for the detection and localization of damages in pultruded Glass Fiber Reinforced Polymer material. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2805.	4.0	11
28	An optimal sensor placement strategy for reliable expansion of mode shapes under measurement noise and modelling error. <i>Journal of Sound and Vibration</i> , 2020, 487, 115511.	3.9	9
29	A generalised power-law formulation for the modelling of damping and stiffness nonlinearities. <i>Mechanical Systems and Signal Processing</i> , 2021, 153, 107531.	8.0	9
30	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles. , 2018, , .		8
31	Unleash Narrowband Technologies for Industrial Internet of Things Services. <i>IEEE Network</i> , 2019, 33, 16-22.	6.9	8
32	Measurement of weak non-linear response of Kevlar® fibre damaged by UV exposure. <i>Composite Structures</i> , 2018, 184, 807-813.	5.8	7
33	Autonomous Inspection and Repair of Aircraft Composite Structures. <i>IFAC-PapersOnLine</i> , 2018, 51, 554-557.	0.9	7
34	Nonlinear Dynamics of Cracked, Cantilevered Beam-like Structures Undergoing Large Deflections. , 2019, , .		7
35	Go Wider: An Efficient Neural Network for Point Cloud Analysis via Group Convolutions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2391.	2.5	6
36	Fast, Accurate, and Reliable Detection of Damage in Aircraft Composites by Advanced Synergistic Infrared Thermography and Phased Array Techniques. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2778.	2.5	6

#	ARTICLE	IF	CITATIONS
37	Monitoring of historical buildings: Project of a dynamic monitoring system for the world's largest elliptical dome. , 2015, , .		5
38	A New Testing Machine for the Dynamic Characterization of High Strength Low Damping Fiber Materials. Experimental Mechanics, 2017, 57, 65-74.	2.0	5
39	An Experimental Validation of Phase-Based Motion Magnification for Structures with Developing Cracks and Time-Varying Configurations. Shock and Vibration, 2021, 2021, 1-16.	0.6	5
40	Vibration tests on dismantled bridge beams and effects of deterioration. Journal of Physics: Conference Series, 2012, 382, 012059.	0.4	4
41	Adaptive Detection Tracking System for Autonomous UAV Maritime Patrolling. , 2020, , .		4
42	On-line identification of time-varying systems equipped with adaptive control. Journal of Physics: Conference Series, 2012, 382, 012038.	0.4	3
43	Unscented Kalman Filter for Non-Linear Identification of a New Prototype of Bidirectional Tuned Vibration Absorber: A Numerical Investigation. Key Engineering Materials, 0, 569-570, 948-955.	0.4	2
44	Ultrasonic Phased Array Imaging Technology for the Inspection of Aerospace Composite Structures. , 2019, , .		2
45	ADAPTIVE INTELLIGENT TRAFFIC CONTROL SYSTEMS FOR IMPROVING TRAFFIC QUALITY AND CONGESTION IN SMART CITIES. International Journal for Quality Research, 2021, 15, 139-154.	1.0	2
46	ADAPTIVE CONTROL OF THE ROCKING MOTION OF ART OBJECTS. , 2015, , .		2
47	Parametric identification of damaged dynamic systems with hysteresis and slip. Journal of Physics: Conference Series, 2011, 305, 012050.	0.4	1
48	Non-linear characterisation of the physical model of an ancient masonry bridge. Journal of Physics: Conference Series, 2012, 382, 012051.	0.4	1
49	Assessment of Structural Reliability of Bridge Beams Based on Measured Symptoms. Key Engineering Materials, 0, 569-570, 358-365.	0.4	1
50	Non-destructive testing on aramid fibres for the long-term assessment of interventions on heritage structures. Journal of Physics: Conference Series, 2015, 628, 012102.	0.4	1
51	Nonlinearity detection and dynamic characterisation of aramid and silicon carbide fibres. International Journal of Lifecycle Performance Engineering, 2016, 2, 79.	0.2	1
52	Numerical and Experimental Modal Analysis Applied to an Optical Test System Designed for the Form Measurements of Metre-Scale Optics. Shock and Vibration, 2018, 2018, 1-14.	0.6	1
53	A Resonating Lattice TMD to Reduce Pipeline Vibrations. , 2018, , .		1
54	A Deep Learning Cognitive Architecture: Towards a Unified Theory of Cognition. Advances in Intelligent Systems and Computing, 2021, , 566-582.	0.6	1

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55	A Preliminary Investigation of an Autonomous Vehicle Validation Infrastructure for Smart Cities. , 2020, , .		0
56	Non-Linear Characterisation of Kevlar and Silicon Carbide Fibres for Structural Health Monitoring Applications. , 0, , .		0
57	Structural System Identification in the Presence of Resonant Non-Structural Appendages. , 0, , .		0