Luca Zanotti Fragonara

List of Publications by Year
in descending order

57 papers	906 citations	394421 19 h-index	501196 28 g-index
61 all docs	61 docs citations	61 times ranked	623 citing authors

#	Article	IF	Citations
1	A machine learning approach for automatic operational modal analysis. Mechanical Systems and Signal Processing, 2022, 170, 108813.	8.0	29
2	Machine learningâ€based automatic operational modal analysis: A structural health monitoring application to masonry arch bridges. Structural Control and Health Monitoring, 2022, 29, .	4.0	28
3	RoIFusion: 3D Object Detection From LiDAR and Vision. IEEE Access, 2021, 9, 51710-51721.	4.2	27
4	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
5	A multiâ€objective genetic algorithm strategy for robust optimal sensor placement. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1185-1202.	9.8	45
6	Fast, Accurate, and Reliable Detection of Damage in Aircraft Composites by Advanced Synergistic Infrared Thermography and Phased Array Techniques. Applied Sciences (Switzerland), 2021, 11, 2778.	2.5	6
7	System identification via Fast Relaxed Vector Fitting for the Structural Health Monitoring of masonry bridges. Structures, 2021, 30, 277-293.	3.6	34
8	GAPointNet: Graph attention based point neural network for exploiting local feature of point cloud. Neurocomputing, 2021, 438, 122-132.	5.9	32
9	A generalised power-law formulation for the modelling of damping and stiffness nonlinearities. Mechanical Systems and Signal Processing, 2021, 153, 107531.	8.0	9
10	Recursive partitioning and Gaussian Process Regression for the detection and localization of damages in pultruded Glass Fiber Reinforced Polymer material. Structural Control and Health Monitoring, 2021, 28, e2805.	4.0	11
11	Application of fibre optic sensing systems to measure rotor blade structural dynamics. Mechanical Systems and Signal Processing, 2021, 158, 107758.	8.0	13
12	Experimental modal analysis of structural systems by using the fast relaxed vector fitting method. Structural Control and Health Monitoring, 2021, 28, e2695.	4.0	12
13	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
14	A Deep Learning Cognitive Architecture: Towards a Unified Theory of Cognition. Advances in Intelligent Systems and Computing, 2021, , 566-582.	0.6	1
15	A Preliminary Investigation of an Autonomous Vehicle Validation Infrastructure for Smart Cities. , 2020, , .		0
16	Adaptive Detection Tracking System for Autonomous UAV Maritime Patrolling. , 2020, , .		4
17	Treed gaussian process for manufacturing imperfection identification of pultruded GFRP thin-walled profile. Composite Structures, 2020, 254, 112882.	5.8	20
18	An optimal sensor placement strategy for reliable expansion of mode shapes under measurement noise and modelling error. Journal of Sound and Vibration, 2020, 487, 115511.	3.9	9

#	Article	IF	Citations
19	An experimental study of the feasibility of phase€based video magnification for damage detection and localisation in operational deflection shapes. Strain, 2020, 56, e12336.	2.4	38
20	Improving Depth Resolution of Ultrasonic Phased Array Imaging to Inspect Aerospace Composite Structures. Sensors, 2020, 20, 559.	3.8	29
21	Go Wider: An Efficient Neural Network for Point Cloud Analysis via Group Convolutions. Applied Sciences (Switzerland), 2020, 10, 2391.	2.5	6
22	Unleash Narrowband Technologies for Industrial Internet of Things Services. IEEE Network, 2019, 33, 16-22.	6.9	8
23	Nonlinear Dynamics of Cracked, Cantilevered Beam-like Structures Undergoing Large Deflections. , 2019, , .		7
24	Ultrasonic Phased Array Imaging Technology for the Inspection of Aerospace Composite Structures. , 2019, , .		2
25	Video Processing Techniques for the Contactless Investigation of Large Oscillations. Journal of Physics: Conference Series, 2019, 1249, 012004.	0.4	14
26	Using Video Processing for the Full-Field Identification of Backbone Curves in Case of Large Vibrations. Sensors, 2019, 19, 2345.	3.8	19
27	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles. Sensors, 2019, 19, 1824.	3.8	11
28	Structural Health Monitoring through Vibration-Based Approaches. Shock and Vibration, 2019, 2019, 1-5.	0.6	17
29	Measurement of weak non-linear response of Kevlar® fibre damaged by UV exposure. Composite Structures, 2018, 184, 807-813.	5.8	7
30	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
31	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles. , 2018, , .		8
32	A Resonating Lattice TMD to Reduce Pipeline Vibrations. , 2018, , .		1
33	Autonomous Inspection and Repair of Aircraft Composite Structures. IFAC-PapersOnLine, 2018, 51, 554-557.	0.9	7
34	Comparison of semi-active control strategies for rocking objects under pulse and harmonic excitations. Mechanical Systems and Signal Processing, 2017, 90, 175-188.	8.0	26
35	Monitoring of masonry historical constructions: 10 years of static monitoring of the world's largest oval dome. Structural Control and Health Monitoring, 2017, 24, e1988.	4.0	28
36	Dynamic investigation on the Mirandola bell tower in post-earthquake scenarios. Bulletin of Earthquake Engineering, 2017, 15, 313-337.	4.1	46

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37	Amplitude dependence of equivalent modal parameters in monitored buildings during earthquake swarms. Earthquake Engineering and Structural Dynamics, 2017, 46, 2399-2417.	4.4	33
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	Nonlinearity detection and dynamic characterisation of aramid and silicon carbide fibres. International Journal of Lifecycle Performance Engineering, 2016, 2, 79.	0.2	1
40	Semi-active control of the rocking motion of monolithic art objects. Journal of Sound and Vibration, 2016, 374, 1-16.	3.9	33
41	A Computational Methodology for Assessing the Time-Dependent Structural Performance of Electric Road Infrastructures. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 701-716.	9.8	17
42	Vibration-Based Monitoring and Diagnosis of Cultural Heritage: A Methodological Discussion in Three Examples. International Journal of Architectural Heritage, 2016, 10, 375-395.	3.1	70
43	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
44	Global Sensitivity-Based Model Updating for Heritage Structures. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 620-635.	9.8	66
45	Monitoring of historical buildings: Project of a dynamic monitoring system for the world's largest elliptical dome. , 2015, , .		5
46	ADAPTIVE CONTROL OF THE ROCKING MOTION OF ART OBJECTS. , 2015, , .		2
47	Comparison of restoring force models for the identification of structures with hysteresis and degradation. Journal of Sound and Vibration, 2013, 332, 6982-6999.	3.9	27
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	Vibration tests on dismounted bridge beams and effects of deterioration. Journal of Physics: Conference Series, 2012, 382, 012059.	0.4	4
50	On-line identification of time-varying systems equipped with adaptive control. Journal of Physics: Conference Series, 2012, 382, 012038.	0.4	3
51	Identification of the hysteretic behaviour of a partial-strength steel–concrete moment-resisting frame structure subject to pseudodynamic tests. Earthquake Engineering and Structural Dynamics, 2012, 41, 1883-1903.	4.4	21
52	Dynamic Characterization of Complex Masonry Structures: The Sanctuary of Vicoforte. International Journal of Architectural Heritage, 2011, 5, 296-314.	3.1	34
53	Parametric identification of damaged dynamic systems with hysteresis and slip. Journal of Physics: Conference Series, 2011, 305, 012050.	0.4	1
54	Assessment of Structural Reliability of Bridge Beams Based on Measured Symptoms. Key Engineering Materials, 0, 569-570, 358-365.	0.4	1

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55	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
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