Guido De Roeck

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Vibration-based monitoring of an FRP footbridge with embedded fiber-Bragg gratings: Influence of temperature vs.Âdamage. Composite Structures, 2022, 287, 115295.	5.8	8
2	Identification of modal strains in concrete beams at sub-microstrain amplitude excitation using fibre Bragg grating sensors mounted on a strain-amplifying transducer. Structural Health Monitoring, 2021, 20, 1221-1230.	7.5	1
3	Stabil: An educational Matlab toolbox for static and dynamic structural analysis. Computer Applications in Engineering Education, 2021, 29, 1372-1389.	3.4	21
4	Damage detection in steel plates using feed-forward neural network coupled with hybrid particle swarm optimization and gravitational search algorithm. Journal of Zhejiang University: Science A, 2021, 22, 467-480.	2.4	4
5	Model updating for a large multi-span quasi-periodic viaduct based on free wave characteristics. Journal of Sound and Vibration, 2021, 506, 116161.	3.9	5
6	Vibration-based structural health monitoring from operational long- gauge fiber optic strain data. , 2021, , .		0
7	Damage Evaluation of Free-Free Beam Based on Vibration Testing. Applied Mechanics, 2020, 1, 142-152.	1.5	5
8	Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. Applied Sciences (Switzerland), 2020, 10, 2347.	2.5	11
9	Influence of damage versus temperature on modal strains and neutral axis positions of beam-like structures. Mechanical Systems and Signal Processing, 2019, 134, 106311.	8.0	22
10	Model updating of periodic structures based on free wave characteristics. Journal of Sound and Vibration, 2019, 442, 281-307.	3.9	12
11	Damage identification using modal strains identified from operational fiber-optic Bragg grating data. Structural Health Monitoring, 2018, 17, 1441-1459.	7.5	52
12	Experimental analysis of the shear behaviour of prestressed and reinforced concrete beams. European Journal of Environmental and Civil Engineering, 2018, 22, 288-314.	2.1	0
13	Damage Identification Using Sub-Microstrain FBG Data from a Pre-Stressed Concrete Beam During Progressive Damage Testing. Proceedings (mdpi), 2018, 2, .	0.2	1
14	Multi-setup Operational Modal Testing of a Multi-span Viaduct. IABSE Symposium Report, 2018, , .	0.0	0
15	Numerical and experimental analysis of the vibration serviceability of the Bears' Cage footbridge. Structure and Infrastructure Engineering, 2017, 13, 390-400.	3.7	11
16	Optimal sensor placement for multi-setup modal analysis of structures. Journal of Sound and Vibration, 2017, 401, 214-232.	3.9	48
17	Identification of modal strains using sub-microstrain FBG data and a novel wavelength-shift detection algorithm. Mechanical Systems and Signal Processing, 2017, 86, 58-74.	8.0	33
18	Simulation of Human-induced Vibrations Based on the Characterized In-field Pedestrian Behavior. Journal of Visualized Experiments, 2016, , .	0.3	2

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19	Numerical and Experimental Evaluation of the Dynamic Performance of a Footbridge with Tuned Mass Dampers. Journal of Bridge Engineering, 2016, 21, .	2.9	29
20	Uncertainty quantification in operational modal analysis with stochastic subspace identification: Validation and applications. Mechanical Systems and Signal Processing, 2016, 66-67, 13-30.	8.0	132
21	Output-only structural health monitoring in changing environmental conditions by means of nonlinear system identification. Structural Health Monitoring, 2014, 13, 82-93.	7.5	176
22	Effects of initial conditions in operational modal analysis. Structural Control and Health Monitoring, 2014, 21, 557-573.	4.0	9
23	Dynamic Analysis of Multispan Viaducts with Weak Coupling between Adjacent Spans. Journal of Bridge Engineering, 2014, 19, 83-90.	2.9	25
24	Uncertainty bounds on modal parameters obtained from stochastic subspace identification. Mechanical Systems and Signal Processing, 2008, 22, 948-969.	8.0	320
25	Consistent Impulse-Response Estimation and System Realization From Noisy Data. IEEE Transactions on Signal Processing, 2008, 56, 2696-2705.	5.3	10
26	Damage Identification on the Tilff Bridge by Vibration Monitoring Using Optical Fiber Strain Sensors. Journal of Engineering Mechanics - ASCE, 2007, 133, 185-193.	2.9	88
27	Testing of a Prestressed Concrete Girder to Study the Enhanced Performance of Monitoring by Integrating Optical Fiber Sensors. Journal of Structural Engineering, 2007, 133, 541-549.	3.4	8
28	Seismic demands and analysis of site effects in the Marmara region during the 1999 Kocaeli earthquake. Natural Hazards, 2007, 42, 169-191.	3.4	4
29	Damage detection and parameter identification by finite element model updating. Revue Européenne De Génie Civil, 2005, 9, 109-158.	0.0	22
30	Damage Detection of a Prestressed Concrete Beam Using Modal Strains. Journal of Structural Engineering, 2005, 131, 1456-1463.	3.4	53
31	The state-of-the-art of damage detection by vibration monitoring: the SIMCES experience. Structural Control and Health Monitoring, 2003, 10, 127-134.	0.5	91
32	Stochastic System Identification for Operational Modal Analysis: A Review. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 659-667.	1.6	728
33	One-year monitoring of the Z24-Bridge: environmental effects versus damage events. Earthquake Engineering and Structural Dynamics, 2001, 30, 149-171.	4.4	710
34	REFERENCE-BASED STOCHASTIC SUBSPACE IDENTIFICATION FOR OUTPUT-ONLY MODAL ANALYSIS. Mechanical Systems and Signal Processing, 1999, 13, 855-878.	8.0	1,110