Katrien Van Nimmen

List of Publications by Year
in descending order

32	534	11	23
papers	citations	h-index	g-index

840776

642732

34	34	34	315
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vibration serviceability of footbridges: Evaluation of the current codes of practice. Engineering Structures, 2014, 59, 448-461.	5.3	129
2	The impact of vertical human-structure interaction on the response of footbridges to pedestrian excitation. Journal of Sound and Vibration, 2017, 402, 104-121.	3.9	74
3	Characterisation of walking loads by 3D inertial motion tracking. Journal of Sound and Vibration, 2014, 333, 5212-5226.	3.9	65
4	Verification of joint input-state estimation for force identification by means of in situ measurements on a footbridge. Mechanical Systems and Signal Processing, 2016, 75, 245-260.	8.0	60
5	Numerical and Experimental Evaluation of the Dynamic Performance of a Footbridge with Tuned Mass Dampers. Journal of Bridge Engineering, 2016, 21, .	2.9	29
6	A spectral load model for pedestrian excitation including vertical human-structure interaction. Engineering Structures, 2018, 156, 537-547.	5.3	21
7	Identification and Modelling of Vertical Human-Structure Interaction. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 319-330.	0.5	17
8	A Robust Methodology for the Reconstruction of the Vertical Pedestrian-Induced Load from the Registered Body Motion. Vibration, 2018, 1, 250-268.	1.9	17
9	Robust vibration serviceability assessment of footbridges subjected to pedestrian excitation: strategy and applications. Engineering Structures, 2018, 171, 236-246.	5.3	15
10	Pedestrian-Induced Vibrations of Footbridges: An Extended Spectral Approach. Journal of Bridge Engineering, 2020, 25, .	2.9	13
11	Eeklo Footbridge: Benchmark Dataset on Pedestrian-Induced Vibrations. Journal of Bridge Engineering, 2021, 26, .	2.9	12
12	Numerical and experimental analysis of the vibration serviceability of the Bears' Cage footbridge. Structure and Infrastructure Engineering, 2017, 13, 390-400.	3.7	11
13	Human-Induced Vibrations of Footbridges: The Effect of Vertical Human-Structure Interaction. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 299-307.	0.5	11
14	Model reduction for dynamical systems with quadratic output. International Journal for Numerical Methods in Engineering, 2012, 91, 229-248.	2.8	10
15	A simplified method to account for vertical human-structure interaction. Structures, 2021, 32, 2004-2019.	3.6	10
16	A simplified method to account for the effect of human-human interaction on the pedestrian-induced vibrations of footbridges. Procedia Engineering, 2017, 199, 2907-2912.	1.2	7
17	Twin Rotor Damper for Human-Induced Vibrations of Footbridges. Journal of Structural Engineering, 2020, 146, .	3.4	7
18	Reduced-order models for vertical human-structure interaction. Journal of Physics: Conference Series, 2016, 744, 012030.	0.4	5

#	Article	IF	Citations
19	Data-Driven Synchronization Analysis of a Bouncing Crowd. Shock and Vibration, 2019, 2019, 1-23.	0.6	4
20	Validation of time-delayed recursive force identification in structural dynamics. Procedia Engineering, 2017, 199, 2154-2159.	1.2	3
21	Vision-Based Methodology for Characterizing the Flow of a High-Density Crowd on Footbridges: Strategy and Application. Infrastructures, 2020, 5, 51.	2.8	3
22	THE IMPACT OF VERTICAL HUMAN-STRUCTURE INTERACTION FOR FOOTBRIDGES. , 2015, , .		3
23	Simulation of Human-induced Vibrations Based on the Characterized In-field Pedestrian Behavior. Journal of Visualized Experiments, 2016, , .	0.3	2
24	Inverse identification of the pedestrian characteristics governing human-structure interaction. Procedia Engineering, 2017, 199, 2889-2894.	1.2	2
25	AN OPEN ACCESS BENCHMARK DATASET ON PEDESTRIAN-INDUCED VIBRATIONS COLLECTED ON THE EEKLO FOOTBRIDGE. , 2020, , .		1
26	IDENTIFICATION OF HUMAN-STRUCTURE INTERACTION BASED ON FULL-SCALE OBSERVATIONS. , 2020, , .		1
27	CONTACT FORCE RECONSTRUCTION ON VIBRATING SURFACES. , 2020, , .		1
28	Prediction of peak response values of structures with and without TMD subjected to random pedestrian flows. Journal of Physics: Conference Series, 2016, 744, 012227.	0.4	0
29	Contact Force Reconstruction from the Lower-Back Accelerations during Walking on Vibrating Surfaces. Vibration, 2021, 4, 205-231.	1.9	0
30	Dynamic performance of a footbridge with tuned mass dampers exposed to pedestrian traffic. , 2016, , 163-168.		0
31	Identification of Human-Induced Loading Using a Joint Input-State Estimation Algorithm. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 353-355.	0.5	0
32	Experimental Verification of the Dynamic Performance of a Footbridge Under High Pedestrian Densities. , 2017, , .		0