Letícia Fleck Fadel Miguel

List of Publications by Year
in descending order

61 papers	**1,312** citations	430442 **18** h-index	377514 **34** g-index
62 all docs	**62** docs citations	**62** times ranked	**831** citing authors

#	Article	IF	Citations
1	OTIMIZAÃ‡ÃƒO DE PARÃ‚METROS DE PROJETO DE ATENUADOR DINÃ‚MICO SINCRONIZADO (ADS) PARA REDUÃ‡ÃƒO DO STORY DRIFT EM EDIFÃCIO. Revista Mundi Engenharia Tecnologia E GestÃ£o (ISSN 2525-4782), 2023, 6, .	0.0	1
2	Robust optimum design of tuned mass dampers for high-rise buildings subject to wind-induced vibration. Numerical Algebra, Control and Optimization, 2023, 13, 154-168.	1.0	2
3	Optimum Design of Single and Multiple Tuned Mass Dampers for Vibration Control in Buildings Under Seismic Excitation. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	7
4	Layout optimization of transmission line family structures. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	3
5	Optimization of a reinforced concrete structure subjected to dynamic wind action. Frattura Ed Integrita Strutturale, 2022, 16, 326-343.	0.5	1
6	On the Selection of Wavelet Models in the Simulation of Seismic Accelerograms through Evolutionary Optimization. , 2022, 1, .		0
7	Reliability-based optimum design of multiple tuned mass dampers for minimization of the probability of failure of buildings under earthquakes. Structures, 2022, 42, 144-159.	1.7	8
8	Optimization of Multiple Tuned Mass Dampers for Road Bridges Taking into Account Bridge-Vehicle Interaction, Random Pavement Roughness, and Uncertainties. Shock and Vibration, 2021, 2021, 1-17.	0.3	6
9	Reliability assessment of existing transmission line towers considering mechanical model uncertainties. Engineering Structures, 2021, 237, 112016.	2.6	13
10	Pareto-optimal front for multi-objective optimization of the suspension of a full-vehicle model in the frequency domain. Engineering Computations, 2021, ahead-of-print, .	0.7	1
11	Simultaneous simulation of the three components of seismic accelerograms at locations around seismological stations. Journal of Seismology, 2021, 25, 1361.	0.6	0
12	Optimization of transmission towers considering the bolt slippage effect. Engineering Structures, 2020, 211, 110436.	2.6	11
13	Vibration control in buildings under seismic excitation using optimized tuned mass dampers. Frattura Ed Integrita Strutturale, 2020, 14, 66-87.	0.5	7
14	Methodology for Simulation of the Three Components of Seismic Acceleration. Bulletin of the Seismological Society of America, 2019, 109, 2427-2436.	1.1	4
15	Robust Optimum Design of Multiple Tuned Mass Dampers for Vibration Control in Buildings Subjected to Seismic Excitation. Shock and Vibration, 2019, 2019, 1-9.	0.3	20
16	Methodology to Obtain Dynamic Response of Road Bridges Considering Bridge–Vehicle Interactions. Practice Periodical on Structural Design and Construction, 2019, 24, .	0.7	8
17	Reliability-based optimum design of passive friction dampers in buildings in seismic regions. Engineering Structures, 2019, 190, 276-284.	2.6	27
18	A performance measure approach for risk optimization. Structural and Multidisciplinary Optimization, 2019, 60, 927-947.	1.7	10

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19	Monte Carlo integration with adaptive variance selection for improved stochastic efficient global optimization. Structural and Multidisciplinary Optimization, 2019, 60, 245-268.	1.7	7
20	Topology design recommendations of transmission line towers to minimize the bolt slippage effect. Engineering Structures, 2019, 178, 286-297.	2.6	12
21	Measurement and evaluation of wholeâ€body vibration exposure in drivers of cargo vehicle compositions. Human Factors and Ergonomics in Manufacturing, 2019, 29, 253-264.	1.4	1
22	Multi-objective optimization of the suspension system parameters of a full vehicle model. Optimization and Engineering, 2019, 20, 151-177.	1.3	41
23	Assessment of downburst wind loading on tall structures. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 174, 252-259.	1.7	9
24	Methodology for the simultaneous optimization of location and parameters of friction dampers in the frequency domain. Engineering Optimization, 2018, , 1-15.	1.5	7
25	Influence of mesh orientation in discrete element method simulations of fracture processes. Journal of Strain Analysis for Engineering Design, 2018, 53, 400-407.	1.0	5
26	Robust Simultaneous Optimization of Friction Damper for the Passive Vibration Control in a Colombian Building. Procedia Engineering, 2017, 199, 1743-1748.	1.2	8
27	Optimum design of planar steel frames using the Search Group Algorithm. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1405-1418.	0.8	11
28	A New Assessment in the Simultaneous Optimization of Friction Dampers in Plane and Spatial Civil Structures. Mathematical Problems in Engineering, 2017, 2017, 1-18.	0.6	11
29	GeraÃ§Ã£o de uma excitaÃ§Ã£o sÃsmica atravÃ©s do espectro de Kanai-Tajimi. Revista Brasileira De ComputaÃ§Ã£o Aplicada, 2017, 9, 31.	0.1	0
30	A Backtracking Search Algorithm for the Simultaneous Size, Shape and Topology Optimization of Trusses. Latin American Journal of Solids and Structures, 2016, 13, 2922-2951.	0.6	7
31	A novel approach to the optimum design of MTMDs under seismic excitations. Structural Control and Health Monitoring, 2016, 23, 1290-1313.	1.9	48
32	Influence of the Width of the Loading Strip in the Brazilian Tensile Test of Concrete and Other Brittle Materials. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	6
33	Robust design optimization of TMDs in vehicleâ€"bridge coupled vibration problems. Engineering Structures, 2016, 126, 703-711.	2.6	58
34	Failure probability minimization of buildings through passive friction dampers. Structural Design of Tall and Special Buildings, 2016, 25, 869-885.	0.9	21
35	Evaluation of the discrete element method (DEM) and of the experimental evidence on concrete behaviour under static 3D compression. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 1366-1378.	1.7	13
36	An improved hybrid optimization algorithm for vibration based-damage detection. Advances in Engineering Software, 2016, 93, 47-64.	1.8	24

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37	A procedure for the size, shape and topology optimization of transmission line tower structures. Engineering Structures, 2016, 111, 162-184.	2.6	46
38	Simultaneous optimization of force and placement of friction dampers under seismic loading. Engineering Optimization, 2016, 48, 582-602.	1.5	42
39	An approach for the global reliability based optimization of the size and shape of truss structures. Mechanics and Industry, 2015, 16, 603.	0.5	9
40	A firefly algorithm for the design of force and placement of friction dampers for control of man-induced vibrations in footbridges. Optimization and Engineering, 2015, 16, 633-661.	1.3	37
41	Search group algorithm: A new metaheuristic method for the optimization of truss structures. Computers and Structures, 2015, 153, 165-184.	2.4	153
42	DYNAMIC RESPONSE OF A 190M-HIGH TRANSMISSION TOWER FOR A LARGE RIVER CROSSING. Journal of Civil Engineering and Management, 2015, 22, 509-519.	1.9	3
43	Whole-Body Vibration Exposures in Urban Bus Drivers: The Influence of Road Type. , 2014, , .		0
44	Study of imperfections in the cubic mesh of the truss-like discrete element method. International Journal of Damage Mechanics, 2014, 23, 819-838.	2.4	14
45	Introduction of imperfections in the cubic mesh of the truss–like discrete element method. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 539-552.	1.7	12
46	Robust design optimization of friction dampers for structural response control. Structural Control and Health Monitoring, 2014, 21, 1240-1251.	1.9	40
47	Assessment of Brazilian tensile test by means of the truss-like Discrete Element Method (DEM) with imperfect mesh. Engineering Structures, 2014, 81, 10-21.	2.6	13
48	Discussion of paper: â€œEstimating optimum parameters of tuned mass dampers using harmony searchâ€• [Eng. Struct. 33 (9) (2011) 2716â€“2723]. Engineering Structures, 2013, 54, 262-264.	2.6	14
49	A hybrid approach for damage detection of structures under operational conditions. Journal of Sound and Vibration, 2013, 332, 4241-4260.	2.1	25
50	Multimodal size, shape, and topology optimisation of truss structures using the Firefly algorithm. Advances in Engineering Software, 2013, 56, 23-37.	1.8	152
51	Assessment of modern metaheuristic algorithms - HS, ABC and FA - in shape and size optimisation of structures with different types of constraints. International Journal of Metaheuristics, 2013, 2, 256.	0.1	5
52	Assessment of code recommendations through simulation of EPS wind loads along a segment of a transmission line. Engineering Structures, 2012, 43, 1-11.	2.6	14
53	Shape and size optimization of truss structures considering dynamic constraints through modern metaheuristic algorithms. Expert Systems With Applications, 2012, 39, 9458-9467.	4.4	182
54	Damage detection under ambient vibration by harmony search algorithm. Expert Systems With Applications, 2012, 39, 9704-9714.	4.4	51

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55	Output-only System Identification and Damage Assessment through Iterative Model Updating Techniques. SDHM Structural Durability and Health Monitoring, 2012, 8, 249-270.	0.6	0
56	Theoretical and experimental modal analysis of a cantilever steel beam with a tip mass. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 1535-1541.	1.1	12
57	Influence of size on the constitutive equations of concrete or rock dowels. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1857-1881.	1.7	27
58	Model uncertainty in the assessment of transmission line towers subjected to cable rupture. Engineering Structures, 2008, 30, 2935-2944.	2.6	27
59	A Constitutive Criterion for the Fault: Modified Velocity-Weakening Law. Bulletin of the Seismological Society of America, 2007, 97, 915-925.	1.1	3
60	Damage detection in truss structures using a flexibility based approach with noise influence consideration. Structural Engineering and Mechanics, 2007, 27, 625-638.	1.0	7
61	Macro constitutive law for rupture dynamics derived from micro constitutive law measured in laboratory. Geophysical Research Letters, 2006, 33, .	1.5	6