LetÃ-cia 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	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
2	Search group algorithm: A new metaheuristic method for the optimization of truss structures. Computers and Structures, 2015, 153, 165-184.	2.4	153
3	Multimodal size, shape, and topology optimisation of truss structures using the Firefly algorithm. Advances in Engineering Software, 2013, 56, 23-37.	1.8	152
4	Robust design optimization of TMDs in vehicleâ€“bridge coupled vibration problems. Engineering Structures, 2016, 126, 703-711.	2.6	58
5	Damage detection under ambient vibration by harmony search algorithm. Expert Systems With Applications, 2012, 39, 9704-9714.	4.4	51
6	A novel approach to the optimum design of MTMDs under seismic excitations. Structural Control and Health Monitoring, 2016, 23, 1290-1313.	1.9	48
7	A procedure for the size, shape and topology optimization of transmission line tower structures. Engineering Structures, 2016, 111, 162-184.	2.6	46
8	Simultaneous optimization of force and placement of friction dampers under seismic loading. Engineering Optimization, 2016, 48, 582-602.	1.5	42
9	Multi-objective optimization of the suspension system parameters of a full vehicle model. Optimization and Engineering, 2019, 20, 151-177.	1.3	41
10	Robust design optimization of friction dampers for structural response control. Structural Control and Health Monitoring, 2014, 21, 1240-1251.	1.9	40
11	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
12	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
13	Model uncertainty in the assessment of transmission line towers subjected to cable rupture. Engineering Structures, 2008, 30, 2935-2944.	2.6	27
14	Reliability-based optimum design of passive friction dampers in buildings in seismic regions. Engineering Structures, 2019, 190, 276-284.	2.6	27
15	A hybrid approach for damage detection of structures under operational conditions. Journal of Sound and Vibration, 2013, 332, 4241-4260.	2.1	25
16	An improved hybrid optimization algorithm for vibration based-damage detection. Advances in Engineering Software, 2016, 93, 47-64.	1.8	24
17	Failure probability minimization of buildings through passive friction dampers. Structural Design of Tall and Special Buildings, 2016, 25, 869-885.	0.9	21
18	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

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19	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
20	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
21	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
22	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
23	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
24	Reliability assessment of existing transmission line towers considering mechanical model uncertainties. Engineering Structures, 2021, 237, 112016.	2.6	13
25	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
26	Introduction of imperfections in the cubic mesh of the trussâ€like discrete element method. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 539-552.	1.7	12
27	Topology design recommendations of transmission line towers to minimize the bolt slippage effect. Engineering Structures, 2019, 178, 286-297.	2.6	12
28	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
29	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
30	Optimization of transmission towers considering the bolt slippage effect. Engineering Structures, 2020, 211, 110436.	2.6	11
31	A performance measure approach for risk optimization. Structural and Multidisciplinary Optimization, 2019, 60, 927-947.	1.7	10
32	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
33	Assessment of downburst wind loading on tall structures. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 174, 252-259.	1.7	9
34	Robust Simultaneous Optimization of Friction Damper for the Passive Vibration Control in a Colombian Building. Procedia Engineering, 2017, 199, 1743-1748.	1.2	8
35	Methodology to Obtain Dynamic Response of Road Bridges Considering Bridgeâ€“Vehicle Interactions. Practice Periodical on Structural Design and Construction, 2019, 24, .	0.7	8
36	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

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37	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
38	Methodology for the simultaneous optimization of location and parameters of friction dampers in the frequency domain. Engineering Optimization, 2018, , 1-15.	1.5	7
39	Monte Carlo integration with adaptive variance selection for improved stochastic efficient global optimization. Structural and Multidisciplinary Optimization, 2019, 60, 245-268.	1.7	7
40	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
41	Vibration control in buildings under seismic excitation using optimized tuned mass dampers. Frattura Ed Integrita Strutturale, 2020, 14, 66-87.	0.5	7
42	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
43	Macro constitutive law for rupture dynamics derived from micro constitutive law measured in laboratory. Geophysical Research Letters, 2006, 33, .	1.5	6
44	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
45	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
46	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
47	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
48	Methodology for Simulation of the Three Components of Seismic Acceleration. Bulletin of the Seismological Society of America, 2019, 109, 2427-2436.	1.1	4
49	A Constitutive Criterion for the Fault: Modified Velocity-Weakening Law. Bulletin of the Seismological Society of America, 2007, 97, 915-925.	1.1	3
50	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
51	Layout optimization of transmission line family structures. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	3
52	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
53	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
54	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

#	Article	IF	Citations
55	OTIMIZAÃ‡ÃƒO DE PARÃ‚METROS DE PROJETO DE ATENUADOR DINÂMICO 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
56	Optimization of a reinforced concrete structure subjected to dynamic wind action. Frattura Ed Integrita Strutturale, 2022, 16, 326-343.	0.5	1
57	Whole-Body Vibration Exposures in Urban Bus Drivers: The Influence of Road Type. , 2014, , .		0
58	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
59	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
60	Simultaneous simulation of the three components of seismic accelerograms at locations around seismological stations. Journal of Seismology, 2021, 25, 1361.	0.6	0
61	On the Selection of Wavelet Models in the Simulation of Seismic Accelerograms through Evolutionary Optimization. , 2022, 1, .		0