Leandro Fleck Fadel Miguel

List of Publications by Year in Descending Order

55 papers	1,087 citations	18 h-index	31 g-index
59 ext. papers	1,322 ext. citations	3.4 avg, IF	4.91 L-index

#	Paper	IF	Citations
55	Layout optimization of transmission line family structures. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2022**, 44, 1	2	0
54	Risk optimization using the Chernoff bound and stochastic gradient descent. *Reliability Engineering and System Safety*, **2022**, 108512	6.3	0
53	A Padé-based fast frequency sweep approach for irregular large-scale building models subjected to seismic excitation. *Structures*, **2021**, 34, 4376-4388	3.4	0
52	Performance based assessment of transmission lines to seismic events. *Engineering Structures*, **2021**, 249, 113298	4.7	1
51	Reliability assessment of existing transmission line towers considering mechanical model uncertainties. *Engineering Structures*, **2021**, 237, 112016	4.7	4
50	Optimization of transmission towers considering the bolt slippage effect. *Engineering Structures*, **2020**, 211, 110436	4.7	5
49	Weight estimation on static B-WIM algorithms: A comparative study. *Engineering Structures*, **2019**, 198, 109463	4.7	13
48	Robust Optimum Design of Multiple Tuned Mass Dampers for Vibration Control in Buildings Subjected to Seismic Excitation. *Shock and Vibration*, **2019**, 2019, 1-9	1.1	10
47	A second order SAP algorithm for risk and reliability based design optimization. *Reliability Engineering and System Safety*, **2019**, 190, 106499	6.3	16
46	A performance measure approach for risk optimization. *Structural and Multidisciplinary Optimization* , **2019**, 60, 927-947	3.6	7
45	Monte Carlo integration with adaptive variance selection for improved stochastic efficient global optimization. *Structural and Multidisciplinary Optimization*, **2019**, 60, 245-268	3.6	4
44	A stochastic gradient approach for the reliability maximization of passively controlled structures. *Engineering Structures*, **2019**, 186, 1-12	4.7	11
43	Topology design recommendations of transmission line towers to minimize the bolt slippage effect. *Engineering Structures*, **2019**, 178, 286-297	4.7	7
42	Assessment of downburst wind loading on tall structures. *Journal of Wind Engineering and Industrial Aerodynamics*, **2018**, 174, 252-259	3.7	6
41	Methodology for the simultaneous optimization of location and parameters of friction dampers in the frequency domain. *Engineering Optimization*, **2018**, 1-15	2	5
40	A probabilistic metric for comparing metaheuristic optimization algorithms. *Structural Safety*, **2018**, 70, 59-70	4.9	19
39	An Efficient Global Optimization Approach for Reliability Maximization of Friction-Tuned Mass Damper-Controlled Structures. *Shock and Vibration*, **2018**, 2018, 1-8	1.1	3

38	Comparative study of tall building response to synoptic and non-synoptic wind action. *REM: International Engineering Journal*, **2018**, 71, 341-347	0.4	
37	Collapse and allowable displacements in the context of reliability analysis of nonlinear structures. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2017**, 39, 1045-1051	2	
36	An efficient approach for the optimization of simply supported steel-concrete composite I-girder bridges. *Advances in Engineering Software*, **2017**, 112, 31-45	3.6	22
35	A gradient-based polynomial chaos approach for risk and reliability-based design optimization. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2017**, 39, 2905-2915	2	18
34	Robust Simultaneous Optimization of Friction Damper for the Passive Vibration Control in a Colombian Building. *Procedia Engineering*, **2017**, 199, 1743-1748		5
33	Optimization of location and forces of friction dampers. *REM: International Engineering Journal*, **2017**, 70, 273-279	0.4	5
32	Probability of failure sensitivity analysis using polynomial expansion. *Probabilistic Engineering Mechanics*, **2017**, 48, 76-84	2.6	14
31	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	2	9
30	A New Assessment in the Simultaneous Optimization of Friction Dampers in Plane and Spatial Civil Structures. *Mathematical Problems in Engineering*, **2017**, 2017, 1-18	1.1	6
29	Simultaneous optimization of force and placement of friction dampers under seismic loading. *Engineering Optimization*, **2016**, 48, 582-602	2	31
28	Robust design optimization of TMDs in vehicle–bridge coupled vibration problems. *Engineering Structures*, **2016**, 126, 703-711	4.7	34
27	Failure probability minimization of buildings through passive friction dampers. *Structural Design of Tall and Special Buildings*, **2016**, 25, 869-885	1.8	14
26	An improved hybrid optimization algorithm for vibration based-damage detection. *Advances in Engineering Software*, **2016**, 93, 47-64	3.6	18
25	Design complexity control in truss optimization. *Structural and Multidisciplinary Optimization*, **2016**, 54, 289-299	3.6	16
24	A general RBDO decoupling approach for different reliability analysis methods. *Structural and Multidisciplinary Optimization*, **2016**, 54, 317-332	3.6	34
23	A procedure for the size, shape and topology optimization of transmission line tower structures. *Engineering Structures*, **2016**, 111, 162-184	4.7	25
22	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	1.4	5
21	A novel approach to the optimum design of MTMDs under seismic excitations. *Structural Control and Health Monitoring*, **2016**, 23, 1290-1313	4.5	24

20	A comparison between robust and risk-based optimization under uncertainty. *Structural and Multidisciplinary Optimization*, **2015**, 52, 479-492	3.6	41
19	Search group algorithm: A new metaheuristic method for the optimization of truss structures. *Computers and Structures*, **2015**, 153, 165-184	4.5	120
18	DYNAMIC RESPONSE OF A 190M-HIGH TRANSMISSION TOWER FOR A LARGE RIVER CROSSING. *Journal of Civil Engineering and Management*, **2015**, 22, 509-519	3	1
17	Modeling of global and local stability in optimization of truss-like structures using frame elements. *Structural and Multidisciplinary Optimization*, **2015**, 51, 1187-1198	3.6	22
16	An approach for the global reliability based optimization of the size and shape of truss structures. *Mechanics and Industry*, **2015**, 16, 603	0.8	7
15	Overcoming the drawbacks of the FORM using a full characterization method. *Structural Safety*, **2015**, 54, 57-63	4.9	22
14	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	2.1	29
13	Robust design optimization of friction dampers for structural response control. *Structural Control and Health Monitoring*, **2014**, 21, 1240-1251	4.5	26
12	Stochastic system identification and damage detection using firefly algorithm. *International Journal of Lifecycle Performance Engineering*, **2014**, 1, 357	0.3	2
11	Advantages of employing a full characterization method over FORM in the reliability analysis of laminated composite plates. *Composite Structures*, **2014**, 107, 635-642	5.3	44
10	Discussion of paper: Estimating optimum parameters of tuned mass dampers using harmony search[Eng. Struct. 33 (9) (2011) 2716–2723]. *Engineering Structures*, **2013**, 54, 262-264	4.7	11
9	A hybrid approach for damage detection of structures under operational conditions. *Journal of Sound and Vibration*, **2013**, 332, 4241-4260	3.9	18
8	Uncertainty quantification for algebraic systems of equations. *Computers and Structures*, **2013**, 128, 189-202	4.9	16
7	Multimodal size, shape, and topology optimisation of truss structures using the Firefly algorithm. *Advances in Engineering Software*, **2013**, 56, 23-37	3.6	118
6	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	0.8	4
5	Shape and size optimization of truss structures considering dynamic constraints through modern metaheuristic algorithms. *Expert Systems With Applications*, **2012**, 39, 9458-9467	7.8	146
4	Damage detection under ambient vibration by harmony search algorithm. *Expert Systems With Applications*, **2012**, 39, 9704-9714	7.8	44
3	Assessment of code recommendations through simulation of EPS wind loads along a segment of a transmission line. *Engineering Structures*, **2012**, 43, 1-11	4.7	8

2	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	1.3	10
1	Damage detection in truss structures using a flexibility based approach with noise influence consideration. *Structural Engineering and Mechanics*, **2007**, 27, 625-638		6