Afonso Lemonge

List of Publications by Year
in descending order

21 papers	389 citations	687363 13 h-index	888059 17 g-index
22 all docs	22 docs citations	22 times ranked	277 citing authors

#	Article	IF	Citations
1	OPTIMIZATION OF CROSS-SECTIONAL AREAS OF REINFORCED CONCRETE COLUMNS SUBJECTED TO AXIAL FORCE AND BIAXIAL BENDING VIA GENETIC ALGORITHMS. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2023, 5, .	0.0	0
2	An Island Model based on Stigmergy to solve optimization problems. Natural Computing, 2021, 20, 413-441.	3.0	8
3	Multi-objective truss structural optimization considering natural frequencies of vibration and global stability. Expert Systems With Applications, 2021, 165, 113777.	7.6	30
4	Evaluation of low fidelity and CFD methods for the aerodynamic performance of a small propeller. Aerospace Science and Technology, 2021, 108, 106402.	4.8	20
5	Solving multi-objective structural optimization problems using GDE3 and NSGA-II with reference points. Engineering Structures, 2021, 239, 112187.	5.3	13
6	Multi-objective optimum design of truss structures using differential evolution algorithms. Computers and Structures, 2021, 252, 106544.	4.4	18
7	Simultaneous sizing, shape, and layout optimization and automatic member grouping of dome structures. Structures, 2020, 28, 2188-2202.	3.6	15
8	Differential evolution with the adaptive penalty method for structural multi-objective optimization. Optimization and Engineering, 2019, 20, 65-88.	2.4	15
9	An algorithm inspired by bee colonies coupled to an adaptive penalty method for truss structural optimization problems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	1
10	Truss optimization with multiple frequency constraints and automatic member grouping. Structural and Multidisciplinary Optimization, 2018, 57, 547-577.	3.5	34
11	A New Strategy to Evaluate the Attractiveness in a Dynamic Island Model. , 2018, , .		9
12	A rank-based constraint handling technique for engineering design optimization problems solved by genetic algorithms. Computers and Structures, 2017, 187, 77-87.	4.4	54
13	An adaptive penalty scheme to solve constrained structural optimization problems by a Craziness based Particle Swarm Optimization. Optimization and Engineering, 2017, 18, 693-722.	2.4	7
14	A dynamic migration policy to the Island Model. , 2017, , .		11
15	A surrogate assisted differential evolution to solve constrained optimization problems. , 2017, , .		2
16	Uma comparação de técnicas de aprendizado de máquina para a previsão de cargas energéticas em edifícios. Ambiente Construído, 2017, 17, 103-115.	0.4	24
17	Use of optimization for automatic grouping of beam cross-section dimensions in reinforced concrete building structures. Engineering Structures, 2015, 99, 311-318.	5.3	23
18	An adaptive constraint handling technique for differential evolution with dynamic use of variants in engineering optimization. Optimization and Engineering, 2011, 12, 31-54.	2.4	47

#	Article	IF	Citations
19	A similarity-based surrogate model for enhanced performance in genetic algorithms. Opsearch, 2009, 46, 89-107.	1.8	20
20	A genetic algorithm encoding for cardinality constraints and automatic variable linking in structural optimization. Engineering Structures, 2008, 30, 3708-3723.	5.3	37
21	Finite element stress analysis of cuneiform and cylindrical threaded implant geometries. Technology and Health Care, 2006, 14, 421-38.	1.2	1