Herbert Martins Gomes

List of Publications by Year
in descending order

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60 papers	1,263 citations	566801 15 h-index	360668 35 g-index
64 all docs	64 docs citations	64 times ranked	1196 citing authors

#	Article	IF	Citations
1	An interval-based multi-objective robust design optimization for vehicle dynamics. Mechanics Based Design of Structures and Machines, 2023, 51, 7076-7101.	3.4	5
2	Numerical study on whole body vibration evaluation in wheeled and tracked armoured vehicles. International Journal of Heavy Vehicle Systems, 2021, 28, 137.	0.1	0
3	Experimental damping ratio evaluation using Hilbert transform in filament-wound composite plates. Polymers and Polymer Composites, 2021, 29, S1578-S1587.	1.0	3
4	Time and Frequency Domain Analysis of Wind Turbine Towers Under Spatially Correlated Wind Field. International Journal of Steel Structures, 2021, 21, 2028-2044.	0.6	2
5	An Efficient Anti-Optimization Approach for Uncertainty Analysis in Composite Laminates. Materials Research, 2021, 24, .	0.6	2
6	Concise Review of Classical Guitar Modelling Technologies. Engineering Proceedings, 2021, 11, 25.	0.4	0
7	Design Optimization of Tapered Steel Wind Turbine Towers by QPSO Algorithm. International Journal of Steel Structures, 2020, 20, 1552-1563.	0.6	4
8	A novel multi-objective quantum particle swarm algorithm for suspension optimization. Computational and Applied Mathematics, 2020, 39, 1.	1.0	13
9	Reliability-Based Design Optimization of a Cemented Prosthesis in a Femur Undergoing Bone Remodeling. Journal of Biomechanical Engineering, 2020, 142, .	0.6	2
10	Numerical study on whole body vibration evaluation in wheeled and tracked armoured vehicles. International Journal of Heavy Vehicle Systems, 2020, 1, 1.	0.1	0
11	Case study on vibration health risk and comfort levels in loading crane trucks. International Journal of Health Planning and Management, 2019, 34, e1448-e1463.	0.7	2
12	Uncertainty Quantification and Model Identification in a Bayesian and Metaheuristic Framework. , 2019, , 407-417.		1
13	Multiobjective Optimization of Composite Materials for Continuous Fiber Orientation. , 2019, , 1035-1044.		0
14	A fuzzy Î±-cut optimization analysis for vibration control of laminated composite smart structures under uncertainties. Applied Mathematical Modelling, 2018, 54, 551-566.	2.2	13
15	A coupled biodynamic model for crowd-footbridge interaction. Engineering Structures, 2018, 177, 47-60.	2.6	13
16	ANÃŁISE COMPARATIVA DE VIBRAÃ‡Ã•ES E CONFORTO EM ELEVADORES COM DIFERENTES SISTEMAS DE ACIONAMENTO. Revista Sul-americana De Engenharia Estrutural, 2018, 15, .	0.1	0
17	Sensitivity or Bayesian model updating: a comparison of techniques using the DLR AIRMOD test data. Archive of Applied Mechanics, 2017, 87, 905-925.	1.2	60
18	Crowd-structure interaction: Investigating the spatiality and synchronization of a pedestrian force model. Journal of Constructional Steel Research, 2017, 133, 510-521.	1.7	8

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19	A Hybrid Method for Truss Mass Minimization considering Uncertainties. Mathematical Problems in Engineering, 2017, 2017, 1-14.	0.6	1
20	Reliability based design optimization using a genetic algorithm: application to bonded thin films areas of copper/polypropylene. Ingeniare, 2016, 24, 510-519.	0.1	7
21	A smart force platform using artificial neural networks. Measurement: Journal of the International Measurement Confederation, 2016, 91, 124-133.	2.5	4
22	Multi-objective optimization of quarter car passive suspension design in the frequency domain based on PSO. Engineering Computations, 2016, 33, 1422-1434.	0.7	11
23	Comparative analysis between efficiency grouping and efficacy grouping in cell formation using the firefly metaheuristic algorithm. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1548-1558.	1.5	3
24	Experimentally fitted biodynamic models for pedestrianâ€“structure interaction in walking situations. Mechanical Systems and Signal Processing, 2016, 72-73, 590-606.	4.4	44
25	Vibration analysis based on health and comfort levels on ride vehicles. International Journal of Vehicle Noise and Vibration, 2015, 11, 238.	0.0	9
26	Parameters optimisation of a vehicle suspension system using a particle swarm optimisation algorithm. Vehicle System Dynamics, 2015, 53, 449-474.	2.2	45
27	Vertical force calibration of smart force platform using artificial neural networks. Revista Brasileira De Engenharia Biomedica, 2014, 30, 406-411.	0.3	2
28	Measurement and evaluation of human exposure to vibration transmitted to hand-arm system during leisure cyclist activity. Revista Brasileira De Engenharia Biomedica, 2014, 30, 291-300.	0.3	7
29	An analytical dynamic model for single-cracked beams including bending, axial stiffness, rotational inertia, shear deformation and coupling effects. Applied Mathematical Modelling, 2014, 38, 938-948.	2.2	17
30	Influence of the fixing type in the optimization of trapezoidal roofing sheets. Journal of Constructional Steel Research, 2014, 96, 26-39.	1.7	4
31	A Parallelised Firefly Algorithm for Structural Size and Shape Optimisation with Multimodal Constraints. Studies in Computational Intelligence, 2014, , 291-314.	0.7	0
32	Inferring Structural Variability Using Modal Analysis in a Bayesian Framework. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 363-373.	0.3	1
33	Using optimization procedures to minimize machining time while maintaining surface quality. International Journal of Advanced Manufacturing Technology, 2013, 65, 1659-1667.	1.5	13
34	Optimal discrete piezoelectric patch allocation on composite structures for vibration control based on GA and modal LQR. Computers and Structures, 2013, 128, 101-115.	2.4	29
35	A firefly metaheuristic structural size and shape optimisation with natural frequency constraints. International Journal of Metaheuristics, 2012, 2, 38.	0.1	21
36	An airfoil optimization technique for wind turbines. Applied Mathematical Modelling, 2012, 36, 4898-4907.	2.2	106

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37	Fuzzy logic for structural system control. Latin American Journal of Solids and Structures, 2012, 9, 111-129.	0.6	8
38	Optimization of laminated composite plates and shells using genetic algorithms, neural networks and finite elements. Latin American Journal of Solids and Structures, 2011, 8, 413-427.	0.6	18
39	Reliability based optimization of laminated composite structures using genetic algorithms and Artificial Neural Networks. Structural Safety, 2011, 33, 186-195.	2.8	88
40	Truss optimization with dynamic constraints using a particle swarm algorithm. Expert Systems With Applications, 2011, 38, 957-968.	4.4	246
41	AvaliaÃ§Ã£o do nÃvel de exposiÃ§Ã£o Ã vibraÃ§Ã£o de operadores de empilhadeiras. Revista Sul-americana De Engenharia Estrutural, 2011, 6, .	0.1	0
42	Reliability analysis of laminated composite structures using finite elements and neural networks. Composite Structures, 2010, 92, 1603-1613.	3.1	55
43	Investigation of the mechanical behavior of trapezoidal roofing sheets using genetic algorithms. Expert Systems With Applications, 2010, 37, 939-948.	4.4	4
44	ComparaÃ§Ã£o entre a tÃ©cnica de substituiÃ§Ã£o do ligamento redondo por implante de fascia lata bubalina preservada em glicerina e o uso de pino transarticular na reduÃ§Ã£o e na estabilizaÃ§Ã£o da luxaÃ§Ã£o coxofemoral experimentalmente induzida em cÃ£es. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2009, 61, 825-834.	0.1	1
45	A Simple Closed-Loop Active Control of Electrodynamic Shakers by Acceleration Power Spectral Density for Environmental Vibration Tests. Experimental Mechanics, 2008, 48, 683-692.	1.1	6
46	Some comparisons for damage detection on structures using genetic algorithms and modal sensitivity method. Applied Mathematical Modelling, 2008, 32, 2216-2232.	2.2	82
47	Reliability analysis of concrete structures with neural networks and response surfaces. Engineering Computations, 2005, 22, 110-128.	0.7	10
48	Comparison of response surface and neural network with other methods for structural reliability analysis. Structural Safety, 2004, 26, 49-67.	2.8	240
49	Reliability of reinforced concrete structures using stochastic finite elements. Engineering Computations, 2002, 19, 764-786.	0.7	18
50	Some aspects on three-dimensional numerical modelling of reinforced concrete structures using the finite element method. Advances in Engineering Software, 2001, 32, 257-277.	1.8	33
51	Probabilistic Analysis of Redundant Systems by the Identification of Multiple Failure Modes. , 0, , .		0
52	Differential evolution metaheuristic for structural optimization in the design of power transmission line towers. , 0, , .		0
53	Fuzzy interval and uncertainty quantification in vehicle dynamics. , 0, , .		0
54	A reliability-based topology optimization approach using BESO. , 0, , .		0

#	Article	IF	Citations
55	CASE STUDY ON HAV AND WBV ON AGRICULTURAL TRACTOR DRIVERS. , 0, , .		0
56	FOOTBRIDGE MODEL UPDATING BASED ON MODAL DATA USING SENSITIVITY METHOD AND PARTICLE SWARM OPTIMIZATION. , 0, , .		1
57	Workplace Vibration and noise exposure levels analysis in a steel cutting and bending unit.. , 0, , .		0
58	Multi-Scale System Reliability Analysis. , 0, , .		0
59	A Real Coded Genetic Algorithm for Fault Diagnosis on Structures. , 0, , .		0
60	A Simple Artificial Neural Network for Structural Re-Analysis in Planar Trusses. , 0, , .		0