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Object-Oriented Optimization Approach Using Genetic Algorithms for Lattice Towers

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#	Paper	IF	Citations
21	Improving Full-Scale Transmission Tower Design through Topology and Shape Optimization. <i>Journal of Structural Engineering</i> , 2006 , 132, 781-790	3	47
20	Integrated System for Steel Truss Bridge. 2006 , 1		
19	A coupled finite element-optimization technique to determine critical microburst parameters for transmission towers. <i>Finite Elements in Analysis and Design</i> , 2008 , 45, 1-12	2.2	16
18	. 2009 ,		0
17	Structural Optimization. 2009 ,		8
16	Dynamic optimization of steel tower by using adaptive genetic algorithm. 2010 ,		
15	Structural topology optimization of high-voltage transmission tower with discrete variables. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 43, 851-861	3.6	20
14	Study on FEM Analysis of Multistory Steel Frame Structure and its Optimal Design. <i>Advanced Materials Research</i> , 2012 , 433-440, 2194-2200	0.5	
13	Selection of an optimal lattice wind turbine tower for a seismic region based on the Cost of Energy. <i>KSCE Journal of Civil Engineering</i> , 2015 , 19, 2179-2190	1.9	7
12	A procedure for the size, shape and topology optimization of transmission line tower structures. <i>Engineering Structures</i> , 2016 , 111, 162-184	4.7	25
11	A Quantitative Comparison Between Size, Shape, Topology and Simultaneous Optimization for Truss Structures. <i>Latin American Journal of Solids and Structures</i> , 2017 , 14, 2221-2242	1.4	8
10	Wind resistant size optimization of geometrically nonlinear lattice structures using a modified optimality criterion method. <i>Engineering Structures</i> , 2018 , 173, 573-588	4.7	3
9	Optimization design of large span portal-rigid steel frame with tapered sections under wind-induced drift constraint. <i>Engineering Structures</i> , 2019 , 194, 396-405	4.7	4
8	An Optimal Seismic Force Pattern for Uniform Drift Distribution. <i>Buildings</i> , 2019 , 9, 231	3.2	7
7	Design optimization of steel-concrete hybrid wind turbine tower based on improved genetic algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2020 , 29, e1741	1.8	3
6	Progressive collapse analysis of a truss transmission tower-line system subjected to downburst loading. <i>Journal of Constructional Steel Research</i> , 2022 , 188, 107044	3.8	2
5	Optimization of Antenna Lattice Towers using Genetic Algorithm. <i>Journal of the Institution of Engineers (India): Series A</i> , 1	1	

4	Layout optimization of transmission line family structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44, 1	2	0
3	BIOS: an object-oriented framework for Surrogate-Based Optimization using bio-inspired algorithms. <i>Structural and Multidisciplinary Optimization</i> , 2022 , 65,	3.6	
2	Size Optimization of Truss Structures Using Real-Coded Genetic Algorithm with a Novel Constraint Handling Method. 2023 , 915-923		0
1	Trihedral Lattice Towers Optimization with a Limitation on the Resonant Vortex Excitation Occurrence. 2023 , 7, 10		0