Optimum design of cellular beams using harmony search

Journal of Constructional Steel Research 67, 237-247 DOI: 10.1016/j.jcsr.2010.07.014

Citation Report

#	Article	IF	CITATIONS
1	Parameter identification for solar cell models using harmony search-based algorithms. Solar Energy, 2012, 86, 3241-3249.	6.1	426
2	An Intelligent Tuned Harmony Search algorithm for optimisation. Information Sciences, 2012, 196, 47-72.	6.9	164
3	Finite element investigation on deflection of cellular beams with various configurations. International Journal of Steel Structures, 2013, 13, 487-494.	1.3	19
4	A survey of non-gradient optimization methods in structural engineering. Advances in Engineering Software, 2013, 59, 19-28.	3.8	133
5	A survey on applications of the harmony search algorithm. Engineering Applications of Artificial Intelligence, 2013, 26, 1818-1831.	8.1	317
6	Comparison of evolutionary-based optimization algorithms for structural design optimization. Engineering Applications of Artificial Intelligence, 2013, 26, 327-333.	8.1	265
7	Ultimate load carrying capacity of optimally designed steel cellular beams. Journal of Constructional Steel Research, 2013, 80, 355-368.	3.9	102
8	Mathematical and Metaheuristic Applications in Design Optimization of Steel Frame Structures: An Extensive Review. Mathematical Problems in Engineering, 2013, 2013, 1-33.	1.1	61
9	Validation of an analytical model for curved and tapered cellular beams at normal and fire conditions. Periodica Polytechnica: Civil Engineering, 2013, 57, 83.	0.6	8
10	Optimization of the Castellated Beams by Particle Swarm Algorithms Method. APCBEE Procedia, 2014, 9, 381-387.	0.5	5
11	Optimum tuned mass damper approaches for adjacent structures. Earthquake and Structures, 2014, 7, 1071-1091.	1.0	39
12	Music Inspired Algorithms. Intelligent Systems Reference Library, 2014, , 183-201.	1.2	0
13	Numerical Analysis of Aluminum Cellular Beams with Cells of Different Arrangement. Advanced Materials Research, 0, 1020, 158-164.	0.3	5
14	Harmony search algorithm for continuous network design problem with link capacity expansions. KSCE Journal of Civil Engineering, 2014, 18, 273-283.	1.9	21
15	Design and economic investigation of shell and tube heat exchangers using Improved Intelligent Tuned Harmony Search algorithm. Ain Shams Engineering Journal, 2014, 5, 1215-1231.	6.1	34
16	Optimal Thrust Allocation for Semisubmersible Oil Rig Platforms Using Improved Harmony Search Algorithm. IEEE Journal of Oceanic Engineering, 2014, 39, 526-539.	3.8	23
17	An enhanced harmony search algorithm for optimum design of side sway steel frames. Computers and Structures, 2014, 136, 78-89.	4.4	55
18	Applications of Harmony Search Algorithms in Engineering. International Journal on Artificial Intelligence Tools, 2015, 24, 1530002.	1.0	13

#	ARTICLE	IF	Citations
19	Optimum Design of Castellated Beams Utilizing Colliding Bodies Optimization. , 2015, , 181-198.		2
20	Colliding Bodies Optimization. , 2015, , .		52
21	Application of structural topology optimisation to perforated steel beams. Computers and Structures, 2015, 158, 108-123.	4.4	63
22	Harmony Search Algorithm Approach for Optimum Design of Post-Tensioned Axially Symmetric Cylindrical Reinforced Concrete Walls. Journal of Optimization Theory and Applications, 2015, 164, 342-358.	1.5	35
23	Size and Topology Optimization of Trusses Using Hybrid Genetic-Particle Swarm Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 179-193.	1.9	21
24	Optimum Design of Laterally Supported Castellated Beams Using Natural Forest Regeneration Algorithm. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 195-207.	1.9	11
25	A Hybrid Harmony Search algorithm for discrete sizing optimization of truss structure. Automation in Construction, 2016, 69, 21-33.	9.8	119
26	A Global-best Harmony Search based Gradient Descent Learning FLANN (GbHS-GDL-FLANN) for data classification. Egyptian Informatics Journal, 2016, 17, 57-87.	6.8	9
27	Effect of hole reinforcement on the buckling behaviour of thin-walled beams subjected to combined loading. Thin-Walled Structures, 2017, 118, 12-22.	5.3	14
28	Applications of Metaheuristic Optimization Algorithms in Civil Engineering. , 2017, , .		105
29	Optimum Design of Castellated Beams Using the Tug of War Algorithm. , 2017, , 9-30.		3
30	Optimum Design of Multi-span Composite Box Girder Bridges Using Cuckoo Search Algorithm. , 2017, , 31-46.		3
31	Metaheuristic based optimization of tuned mass dampers under earthquake excitation by considering soil-structure interaction. Soil Dynamics and Earthquake Engineering, 2017, 92, 443-461.	3.8	79
32	A firefly algorithm for optimum design of new-generation beams. Engineering Optimization, 2017, 49, 915-931.	2.6	19
33	Structural behaviour of arched steel beams with cellular openings. Journal of Constructional Steel Research, 2018, 148, 756-767.	3.9	23
34	Optimal design of I-section beam-columns with stress, non-linear deflection and stability constraints. Engineering Structures, 2018, 171, 385-394.	5.3	11
35	Machine learning algorithms for structural performance classifications and predictions: Application to reinforced masonry shear walls. Structures, 2019, 22, 252-265.	3.6	62
36	A similarity hybrid harmony search algorithm for the Team Orienteering Problem. Applied Soft Computing Journal, 2019, 80, 776-796.	7.2	32

#	Article	IF	CITATIONS
37	Comprehensive Review of the Development of the Harmony Search Algorithm and its Applications. IEEE Access, 2019, 7, 14233-14245.	4.2	62
38	Cost Optimization of Composite Floor Systems with Castellated Steel Beams. Practice Periodical on Structural Design and Construction, 2019, 24, .	1.3	9
39	An improved differential harmony search algorithm for function optimization problems. Soft Computing, 2019, 23, 4827-4852.	3.6	40
40	Weight optimization of steel frames with cellular beams through improved hunting search algorithm. Advances in Structural Engineering, 2020, 23, 1024-1037.	2.4	8
41	Efficiency of Castellated and Cellular Beam Utilization Based on Design Guidelines. Practice Periodical on Structural Design and Construction, 2020, 25, 04020016.	1.3	2
42	Comparison of three novel hybrid metaheuristic algorithms for structural optimization problems. Computers and Structures, 2021, 244, 106395.	4.4	12
43	Harmony Search Algorithm for Structural Engineering Problems. Springer Tracts in Nature-inspired Computing, 2021, , 13-47.	0.7	5
44	Experimental and Analytical Investigation of Castellated Steel Beams with Varying Openings Eccentricity. Journal of the Institution of Engineers (India): Series A, 2021, 102, 479-488.	1.2	7
45	Optimum design of multi-span composite box girder bridges using Cuckoo Search algorithm. Steel and Composite Structures, 2014, 17, 705-719.	1.3	15
46	Effect of stiffeners on failure analyses of optimally designed perforated steel beams. Steel and Composite Structures, 2016, 22, 183-201.	1.3	4
47	A hybrid imperialist competitive ant colony algorithm for optimum geometry design of frame structures. Structural Engineering and Mechanics, 2013, 46, 403-416.	1.0	6
48	Optimum design of axially symmetric cylindrical reinforced concrete walls. Structural Engineering and Mechanics, 2014, 51, 361-375.	1.0	19
49	Solving design optimization problems via hunting search algorithm with Levy flights. Structural Engineering and Mechanics, 2014, 52, 351-368.	1.0	8
50	The comparative analysis of optimal designed web expanded beams via improved harmony search method. Structural Engineering and Mechanics, 2015, 54, 665-691.	1.0	8
51	A novel harmony search based optimization of reinforced concrete biaxially loaded columns. Structural Engineering and Mechanics, 2015, 54, 1097-1109.	1.0	34
52	DİFERANSİYEL GELİŞİM ALGORİTMASI KULLANILARAK OTOMOTİV SÜSPANSİYON YAYLARININ OP UludaÄŸ University Journal of the Faculty of Engineering, 2018, 23, 207-214.	TİMUM ⁻ 0.2	TAŞARIMI.
53	Structural Design Optimization of Vehicle Components Using Cuckoo Search Algorithm. Materialpruefung/Materials Testing, 2012, 54, 185-188.	2.2	142
54	A Harmony Search Algorithm approach for optimizing traffic signal timings. Promet - Traffic - Traffico, 2013, 25, 349-358.	0.7	18

#	Article	IF	CITATIONS
55	Optimum Designof Reinforced Concrete Multi-Story Multi-Span Frame Structures under Static Loads. International Journal of Engineering and Technology, 2018, 10, 403-407.	0.2	16
56	Optimum Design of Truss on Sizing and Shape with Natural Frequency Constraints and Harmony Search Algorithm. Journal of Ocean Engineering and Technology, 2013, 27, 36-42.	1.2	1
57	Metaheuristic Optimization on Conventional Freeman Chain Code Extraction Algorithm for Handwritten Character Recognition. Lecture Notes in Computer Science, 2017, , 518-527.	1.3	2
58	Weight optimization of composite cellular beam based on the differential evolution algorithm. Journal of Science and Technology in Civil Engineering (STCE) - NUCE, 2018, 12, 28-38.	0.4	0
59	A Study on the Performance of Grey Wolf Optimizer. Communications in Computer and Information Science, 2021, , 100-116.	0.5	1
60	A Similarity Hybrid Harmony Search Algorithm for the Orienteering Problem. Cooperative Management, 2020, , 197-218.	0.3	0
61	Research on Global Competition and Acoustic Search Algorithm Based on Random Attraction. Communications in Computer and Information Science, 2020, , 185-196.	0.5	0
62	Model parameters identification of a photovoltaic module, based on fabricant datasheet information and by using a genetic algorithm. , 2021, , .		0
63	Optimal design of aerospace structures using recent meta-heuristic algorithms. Materialpruefung/Materials Testing, 2021, 63, 1025-1031.	2.2	2
64	A comparative study of several bio-inspired algorithms in cost optimization of cellular beams. IOP Conference Series: Earth and Environmental Science, 2021, 907, 012001.	0.3	0
66	Kısıtlı Mühendislik Problemlerinin Karşılaştırmalı Ağırlık ve Maliyet Optimizasyonu. Mül , 784-805.	hendis Ve	Mąkina, O,
67	Design of large-scale real-size steel structures using various modified grasshopper optimization algorithms. Neural Computing and Applications, 2022, 34, 13825-13848.	5.6	3
68	Optimum Design of Castellated Beams Using Four Recently Developed Meta-heuristic Algorithms. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2023, 47, 713-725.	1.9	12
69	Machine learning-based failure mode identification of double shear bolted connections in structural steel. Engineering Failure Analysis, 2022, 139, 106471.	4.0	8
70	Analysis of heat transmission in convective, radiative and moving rod with thermal conductivity using meta-heuristic-driven soft computing technique. Structural and Multidisciplinary Optimization, 2022, 65, .	3.5	5
71	Dimension Analysis of Bending Perforated Beams with the Evolutionary Topological Optimization Method. Aurum Mühendislik Sistemleri Ve Mimarlık Dergisi, 0, , .	0.3	0
72	Lévy flight and Chaos theory based metaheuristics for grayscale image thresholding. , 2023, , 203-235.		0
74	Optimum Design of Castellated Beams Using SSOA and the Other Four Meta-Heuristic Algorithms. Studies in Systems, Decision and Control, 2023, , 169-192.	1.0	0

#	Article	IF	CITATIONS
76	A new hybrid Harris hawks optimization (HHO) and particle swarm optimization (PSO) algorithm for the design of castellated beams. Asian Journal of Civil Engineering, 2023, 24, 2121-2139.	1.6	2
77	Optimization of steel beams with external pretension, considering the environmental and financial impact. Asian Journal of Civil Engineering, 2023, 24, 3331-3344.	1.6	2
78	Topological optimization of composite trusses considering CO2 emission via metaheuristics algorithms. Revista IBRACON De Estruturas E Materiais, 2023, 16, .	0.6	1
79	Unsupervised Machine Learning for Fire Resistance Analysis. Communications in Computer and Information Science, 2023, , 211-221.	0.5	0
80	Taguchi-enhanced Grey Wolf Optimizer for robust design of cellular beams. Mechanics Based Design of Structures and Machines, 0, , 1-30.	4.7	0
81	Levy Flight and Chaos Theory-Based Gravitational Search Algorithm for Image Segmentation. Mathematics, 2023, 11, 3913.	2.2	1
82	Cellular versus standard beams: impact on steel frame stability and load-carrying capacity. Asian Journal of Civil Engineering, 0, , .	1.6	0
83	Optimum design of pile cap considering minimization of environmental impacts. REM: International Engineering Journal, 2024, 77, 9-19.	0.4	0
84	INTEGRATING ENHANCED OPTIMIZATION WITH FINITE ELEMENT ANALYSIS FOR DESIGNING STEEL STRUCTURE WEIGHT UNDER MULTIPLE CONSTRAINTS. Journal of Civil Engineering and Management, 2023, 29, 757-786.	3.5	0
85	A metaheuristicâ€based method for analysis of tensegrity structures. Structural Design of Tall and Special Buildings, 2024, 33, .	1.9	0
86	Optimization of open web steel beams using the finite element method and genetic algorithms. Structures, 2024, 60, 105785.	3.6	0
87	Optimization of Structural Steel Used in Concrete-Encased Steel Composite Columns via Topology Optimization. Applied Sciences (Switzerland), 2024, 14, 1170.	2.5	0
88	Effect of geometry on flexural behavior of optimal designed web-expanded beams. Journal of Constructional Steel Research, 2024, 215, 108500.	3.9	0