

A simple genetic algorithm for the design of reinforced

Engineering With Computers

13, 185-196

DOI: 10.1007/bf01200046

Citation Report

#	ARTICLE	IF	CITATIONS
1	Self-adaptive penalties for GA-based optimization. , 0, , .		30
2	Use of a self-adaptive penalty approach for engineering optimization problems. Computers in Industry, 2000, 41, 113-127.	9.9	1,045
3	Simultaneous Reduction of Engine Emissions and Fuel Consumption Using Genetic Algorithms and Multi-Dimensional Spray and Combustion Modeling. , 0, , .		72
4	A methodology for engine design using multi-dimensional modelling and genetic algorithms with validation through experiments. International Journal of Engine Research, 2000, 1, 229-248.	2.3	53
5	TREATING CONSTRAINTS AS OBJECTIVES FOR SINGLE-OBJECTIVE EVOLUTIONARY OPTIMIZATION. Engineering Optimization, 2000, 32, 275-308.	2.6	231
6	CONSTRAINT-HANDLING USING AN EVOLUTIONARY MULTIOBJECTIVE OPTIMIZATION TECHNIQUE. Civil Engineering and Environmental Systems, 2000, 17, 319-346.	0.9	310
7	Diesel Engine Combustion Chamber Geometry Optimization Using Genetic Algorithms and Multi-Dimensional Spray and Combustion Modeling. , 0, , .		121
8	Optimum rigid pavement design by genetic algorithms. Computers and Structures, 2001, 79, 1617-1624.	4.4	17
9	Multi-Mode Genetic Algorithm Optimization of Combustion Chamber Geometry for Low Emissions. , 0, , .		26
10	Multi-objective meta-heuristics: An overview of the current state-of-the-art. European Journal of Operational Research, 2002, 137, 1-9.	5.7	485
11	Theoretical and numerical constraint-handling techniques used with evolutionary algorithms: a survey of the state of the art. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 1245-1287.	6.6	1,867
12	Split-Spray Piston Geometry Optimized for HSDI Diesel Engine Combustion. , 2003, , .		31
13	Optimum detailed design of reinforced concrete continuous beams using Genetic Algorithms. Computers and Structures, 2005, 84, 34-48.	4.4	95
14	Multiobjective Simulated Annealing Optimization of Concrete Building Frames. , 2006, , 1.		4
15	Design of reinforced concrete bridge frames by heuristic optimization. Advances in Engineering Software, 2008, 39, 676-688.	3.8	75
16	A parametric study of optimum earth-retaining walls by simulated annealing. Engineering Structures, 2008, 30, 821-830.	5.3	139
17	Multiobjective Optimization of Concrete Frames by Simulated Annealing. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 596-610.	9.8	124
18	CO2-optimization of reinforced concrete frames by simulated annealing. Engineering Structures, 2009, 31, 1501-1508.	5.3	139

#	ARTICLE	IF	CITATIONS
19	Heuristic optimization of RC bridge piers with rectangular hollow sections. Computers and Structures, 2010, 88, 375-386.	4.4	39
20	On the Weibull cost estimation of building frames designed by simulated annealing. Meccanica, 2010, 45, 693-704.	2.0	41
21	Design of prestressed concrete precast pedestrian bridges by heuristic optimization. Advances in Engineering Software, 2010, 41, 916-922.	3.8	24
22	Optimal column base plate design using a modified genetic algorithm based on Newton-Raphson method. , 2010, , .		2
25	Design of reinforced concrete road vaults by heuristic optimization. Advances in Engineering Software, 2011, 42, 151-159.	3.8	42
26	Design of tall bridge piers by ant colony optimization. Engineering Structures, 2011, 33, 2320-2329.	5.3	20
27	Design of Retaining Walls Using Big Bang“Big Crunch Optimization. Journal of Structural Engineering, 2012, 138, 438-448.	3.4	114
28	CO2-Optimization Design of Reinforced Concrete Retaining Walls Based on a VNS-Threshold Acceptance Strategy. Journal of Computing in Civil Engineering, 2012, 26, 378-386.	4.7	70
29	Multi-objective optimization design of bridge piers with hybrid heuristic algorithms. Journal of Zhejiang University: Science A, 2012, 13, 420-432.	2.4	27
30	Design of prestressed concrete flat slab using modern heuristic optimization techniques. Expert Systems With Applications, 2012, 39, 5758-5766.	7.6	28
31	CO 2 and cost optimization of reinforced concrete footings using a hybrid big bang-big crunch algorithm. Structural and Multidisciplinary Optimization, 2013, 48, 411-426.	3.5	54
32	Artificial Bee Colony (ABC) algorithm in the design optimization of RC continuous beams. Structural and Multidisciplinary Optimization, 2013, 47, 963-979.	3.5	39
33	Design of prestressed concrete precast road bridges with hybrid simulated annealing. Engineering Structures, 2013, 48, 342-352.	5.3	43
34	CO2 and cost optimization of reinforced concrete frames using a big bang-big crunch algorithm. Engineering Structures, 2013, 48, 363-372.	5.3	99
35	Anlisis e Implementaciin de Algoritmos Evolutivos para la Optimizaciin de Modelos en Ingenierrra Civil (Implementation of Evolutionary Algorithms for Optimization of Models in Civil Engineering). SSRN Electronic Journal, 2014, , .	0.4	0
36	CO2 and cost optimization of reinforced concrete footings subjected to uniaxial uplift. Journal of Building Engineering, 2015, 3, 171-183.	3.4	20
37	Quantitative method for evaluating applicability of designed reinforcement pattern. Tehnicki Vjesnik, 2015, 22, 119-124.	0.2	2
38	Applicability Problem in Optimum Reinforced Concrete Structures Design. MATEC Web of Conferences, 2016, 73, 04005.	0.2	1

#	ARTICLE	IF	CITATIONS
39	Multi-objective Optimization of Reinforced Cement Concrete Retaining Wall. Indian Geotechnical Journal, 2016, 46, 354-368.	1.4	14
40	Genetic programming in the simulation of Frp-to-concrete patch-anchored joints. Composite Structures, 2016, 138, 305-312.	5.8	18
41	Designing construction processes in buildings by heuristic optimization. Engineering Structures, 2016, 111, 1-10.	5.3	23
42	Optimization of buttressed earth-retaining walls using hybrid harmony search algorithms. Engineering Structures, 2017, 134, 205-216.	5.3	48
43	Heuristics in optimal detailed design of precast road bridges. Archives of Civil and Mechanical Engineering, 2017, 17, 738-749.	3.8	18
44	Design Optimization of Reinforced Concrete Beams. Journal of the Institution of Engineers (India): Series A, 2017, 98, 429-435.	1.2	11
45	Optimal parameters and performance of artificial bee colony algorithm for minimum cost design of reinforced concrete frames. Engineering Structures, 2017, 151, 802-820.	5.3	18
46	Improvements in meta-heuristic algorithms for minimum cost design of reinforced concrete rectangular sections under compression and biaxial bending. Engineering Structures, 2017, 130, 162-179.	5.3	15
47	Automated specification of steel reinforcement to support the optimisation of RC floors. Automation in Construction, 2018, 96, 366-377.	9.8	17
48	Bi-level programming problem in the supply chain and its solution algorithm. Soft Computing, 2020, 24, 2703-2714.	3.6	14
49	Optimum Design of RC Footings with Genetic Algorithms According to ACI 318-19. Buildings, 2020, 10, 110.	3.1	15
50	Reinforced concrete structural design optimization: A critical review. Journal of Cleaner Production, 2020, 260, 120623.	9.3	56
51	PRIMENA GENETSKOG ALGORITMA U ODREĐIVANJU DIMENZIJA LUČENOG MOSTA. Zbornik Radova Građevinskog Fakulteta, 2021, 37, 129-142.	0.1	0
52	Optimal configuration of RC frames considering ultimate and serviceability limit state constraints. Revista IBRACON De Estruturas E Materiais, 2021, 14, .	0.6	2
53	DESIGN OF REINFORCED CONCRETE ISOLATED FOOTINGS UNDER AXIAL LOADING WITH ARTIFICIAL NEURAL NETWORKS. , 2021, , .		4
54	Simulation of foamed concrete compressive strength prediction using adaptive neuro-fuzzy inference system optimized by nature-inspired algorithms. Frontiers of Structural and Civil Engineering, 2021, 15, 61-79.	2.9	12
55	Optimized Adaptive Neuro-Fuzzy Inference System Using Metaheuristic Algorithms: Application of Shield Tunnelling Ground Surface Settlement Prediction. Complexity, 2021, 2021, 1-15.	1.6	7
56	Cutting Waste Minimization of Rebar for Sustainable Structural Work: A Systematic Literature Review. Sustainability, 2021, 13, 5929.	3.2	16

#	ARTICLE	IF	CITATIONS
57	Artificial intelligence based design of 3D-printed tablets for personalised medicine. Computers and Chemical Engineering, 2021, 154, 107492.	3.8	7
58	Optimization of slender reinforced concrete columns subjected to biaxial bending using genetic algorithms. Revista IBRACON De Estruturas E Materiais, 2021, 14, .	0.6	3
59	Cost versus sustainability of reinforced concrete building frames by multiobjective optimization. , 2008, , 953-958.		2
60	Optimum design of a reinforced concrete beam using artificial bee colony algorithm. Computers and Concrete, 2012, 10, 295-306.	0.7	13
61	Optimum design of RC shallow tunnels in earthquake zones using artificial bee colony and genetic algorithms. Computers and Concrete, 2016, 17, 435-453.	0.7	7
62	Optimum cost design of RC columns using artificial bee colony algorithm. Structural Engineering and Mechanics, 2013, 45, 643-654.	1.0	16
63	A parametric study of optimum tall piers for railway bridge viaducts. Structural Engineering and Mechanics, 2013, 45, 723-740.	1.0	11
64	Threshold accepting optimization of road vaults and rectangular hollow bridge piers. WIT Transactions on the Built Environment, 2007, , .	0.0	3
65	Optimization of Reinforced Concrete Structures by Simulated Annealing. , 0, , .		0
66	Heuristic optimization of prestressed concrete precast pedestrian bridges. , 2009, , .		0
68	Optimum cost design of reinforced concrete continuous beams using Genetic Algorithms. International Journal of Applied Science and Engineering Research, 2013, 2, 79-92.	0.2	6
69	Integraci3n de investigaci3n y docencia de posgrado a trav3s del dise±o eficiente de estructuras. Modelling in Science Education and Learning, 0, 6, 89.	0.2	0
70	OPTIMAL STRUCTURAL DESIGN OF REINFORCED CONCRETE STRUCTURES â€“ REVIEW OF EXISTING SOLUTIONS CONSIDERING APPLICABILITY ASPECT. Archives for Technical Sciences, 0, , .	0.1	1
71	Metaheuristic approaches for optimum design of cantilever reinforced concrete retaining walls. , 0, , .		2
72	Heuristic design of a precast-prestressed concrete U-beam and post-tensioned cast-in-place concrete slab road bridges. WIT Transactions on the Built Environment, 2016, , .	0.0	0
73	Optimization of Shoring/Reshoring Levels in High-Rise Building Construction. Organization, Technology and Management in Construction, 2018, 10, 1803-1826.	1.1	2
74	Genetic algorithm using probabilistic-based natural selections and dynamic mutation ranges in optimizing precast beams. Computers and Structures, 2022, 258, 106681.	4.4	11
75	OPTIMIZATION OF DOUBLY REINFORCED BEAM DESIGN USING SIMULATED ANNEALING. Journal of Engineering Studies and Research, 2020, 26, 135-142.	0.1	0

#	ARTICLE	IF	CITATIONS
76	Multi-objective Optimization of the Reinforced Concrete Beam. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 171-178.	0.6	1
77	Economic and environmental design optimisation of reinforced concrete frame buildings: A comparative study. <i>Structures</i> , 2022, 38, 64-75.	3.6	8
78	Prediction of Concrete Compressive Strength Using a Back-Propagation Neural Network Optimized by a Genetic Algorithm and Response Surface Analysis Considering the Appearance of Aggregates and Curing Conditions. <i>Buildings</i> , 2022, 12, 438.	3.1	13
79	DESIGN OPTIMIZATION OF RECTANGULAR RC BEAMS USING GENETIC ALGORITHM. <i>Usak University Journal of Engineering Sciences</i> , 0, , .	0.7	0
80	The force analysis for large-span overhanging the SRC beam sections based on machine learning. , 2022, , .		0
81	A parametric study on the cost optimization of a reinforced concrete abutment using a genetic algorithm. <i>Canadian Journal of Civil Engineering</i> , 2022, 49, 1392-1401.	1.3	1
82	Can the global optimum of a combinatorial optimization problem be reliably estimated through extreme value theory?. <i>Swarm and Evolutionary Computation</i> , 2022, 75, 101172.	8.1	3
83	An Overview on the Need for Automatic Structural Detailing of Area Elements in BIM Tools. , 0, , .		0
84	Performance Evaluation of an Improved ANFIS Approach Using Different Algorithms to Predict the Bonding Strength of Glulam Adhered by Modified Soy Proteinâ€™MUF Resin Adhesive. <i>Journal of Composites Science</i> , 2023, 7, 93.	3.0	2
85	Minimizing Superstructure Twist in Irregular Bridges through Optimization of Structural Parameters. <i>Journal of Bridge Engineering</i> , 2023, 28, .	2.9	0
86	OPTIMAL STRUCTURAL DESIGN OF REINFORCED CONCRETE STRUCTURES â€™ REVIEW OF EXISTING SOLUTIONS CONSIDERING APPLICABILITY ASPECT. <i>Archives for Technical Sciences</i> , 2013, 2, .	0.1	1
87	Topological optimization of composite trusses considering CO2 emission via metaheuristics algorithms. <i>Revista IBRACON De Estruturas E Materiais</i> , 2023, 16, .	0.6	1
88	Optimierung von HohlkÃ¶rpern in Stahlbetonplatten fÃ¼r beliebige SchnittgrÃ¶Ãenkombinationen. <i>Beton-Und Stahlbetonbau</i> , 2023, 118, 842-851.	0.4	1