

Ali Riza Yildiz

List of Publications by Year in descending order

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75
papers

4,458
citations

57719

44
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106281

65
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79
all docs

79
docs citations

79
times ranked

1655
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel particle swarm optimization approach for product design and manufacturing. International Journal of Advanced Manufacturing Technology, 2009, 40, 617-628.	1.5	190
2	A novel hybrid immune algorithm for global optimization in design and manufacturing. Robotics and Computer-Integrated Manufacturing, 2009, 25, 261-270.	6.1	176
3	Comparison of grey wolf, whale, water cycle, ant lion and sine-cosine algorithms for the optimization of a vehicle engine connecting rod. Materialpruefung/Materials Testing, 2018, 60, 311-315.	0.8	136
4	An effective hybrid immune-hill climbing optimization approach for solving design and manufacturing optimization problems in industry. Journal of Materials Processing Technology, 2009, 209, 2773-2780.	3.1	128
5	A Comparative Study of Metaheuristic Algorithms for Reliability-Based Design Optimization Problems. Archives of Computational Methods in Engineering, 2021, 28, 1853-1869.	6.0	126
6	A Comparative Study of Recent Non-traditional Methods for Mechanical Design Optimization. Archives of Computational Methods in Engineering, 2020, 27, 1031-1048.	6.0	115
7	Moth-flame optimization algorithm to determine optimal machining parameters in manufacturing processes. Materialpruefung/Materials Testing, 2017, 59, 425-429.	0.8	113
8	A new design optimization framework based on immune algorithm and Taguchi's method. Computers in Industry, 2009, 60, 613-620.	5.7	109
9	A comparison of recent metaheuristic algorithms for crashworthiness optimisation of vehicle thin-walled tubes considering sheet metal forming effects. International Journal of Vehicle Design, 2017, 73, 179.	0.1	107
10	A novel hybrid Harris hawks-simulated annealing algorithm and RBF-based metamodel for design optimization of highway guardrails. Materialpruefung/Materials Testing, 2020, 62, 251-260.	0.8	107
11	Optimum design of cam-roller follower mechanism using a new evolutionary algorithm. International Journal of Advanced Manufacturing Technology, 2018, 99, 1267-1282.	1.5	98
12	A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. Materialpruefung/Materials Testing, 2019, 61, 735-743.	0.8	98
13	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. International Journal of Vehicle Design, 2017, 73, 20.	0.1	96
14	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. Engineering With Computers, 2022, 38, 4207-4219.	3.5	94
15	The Harris hawks optimization algorithm, salp swarm algorithm, grasshopper optimization algorithm and dragonfly algorithm for structural design optimization of vehicle components. Materialpruefung/Materials Testing, 2019, 61, 744-748.	0.8	94
16	A novel hybrid whale "Nelder" Mead algorithm for optimization of design and manufacturing problems. International Journal of Advanced Manufacturing Technology, 2019, 105, 5091-5104.	1.5	91
17	Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems. Expert Systems With Applications, 2021, 183, 115351.	4.4	91
18	EMoSOA: a new evolutionary multi-objective seagull optimization algorithm for global optimization. International Journal of Machine Learning and Cybernetics, 2021, 12, 571-596.	2.3	88

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19	A new Hybrid Taguchi-salp swarm optimization algorithm for the robust design of real-world engineering problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 157-162.	0.8	88
20	Optimization of thin-wall structures using hybrid gravitational search and Nelder-Mead algorithm. <i>Materialpruefung/Materials Testing</i> , 2016, 58, 75-78.	0.8	88
21	Seagull optimization algorithm for solving real-world design optimization problems. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 640-644.	0.8	88
22	Comparison of recent optimization algorithms for design optimization of a cam-follower mechanism. <i>Knowledge-Based Systems</i> , 2020, 191, 105237.	4.0	87
23	Comparison of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 356-359.	0.8	85
24	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. <i>Expert Systems</i> , 2021, 38, e12666.	2.9	83
25	Structural design of vehicle components using gravitational search and charged system search algorithms. <i>Materialpruefung/Materials Testing</i> , 2016, 58, 79-81.	0.8	81
26	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 336-340.	0.8	80
27	Self-adaptive many-objective meta-heuristic based on decomposition for many-objective conceptual design of a fixed wing unmanned aerial vehicle. <i>Aerospace Science and Technology</i> , 2020, 100, 105783.	2.5	79
28	Optimal design of vehicle components using topology design and optimisation. <i>International Journal of Vehicle Design</i> , 2004, 34, 387.	0.1	74
29	Hybrid immune-simulated annealing algorithm for optimal design and manufacturing. <i>International Journal of Materials and Product Technology</i> , 2009, 34, 217.	0.1	74
30	An investigation of the crash performance of magnesium, aluminum and advanced high strength steels and different cross-sections for vehicle thin-walled energy absorbers. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 661-668.	0.8	74
31	The Harris hawks, grasshopper and multi-verse optimization algorithms for the selection of optimal machining parameters in manufacturing operations. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 725-733.	0.8	74
32	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 261-264.	0.8	72
33	Lightweight design of an automobile hinge component using glass fiber polyamide composites. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 306-310.	0.8	70
34	Butterfly optimization algorithm for optimum shape design of automobile suspension components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 365-370.	0.8	69
35	A new hybrid approach for reliability-based design optimization of structural components. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 111-119.	0.8	68
36	Hybrid Taguchi-Harmony Search Approach for Shape Optimization. <i>Studies in Computational Intelligence</i> , 2010, , 89-98.	0.7	65

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37	Optimal Structural Design of Vehicle Components Using Topology Design and Optimization. <i>Materialpruefung/Materials Testing</i> , 2008, 50, 224-228.	0.8	65
38	An experimental and numerical investigation of the effects of geometry and spot welds on the crashworthiness of vehicle thin-walled structures. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 553-561.	0.8	65
39	The equilibrium optimization algorithm and the response surface-based metamodel for optimal structural design of vehicle components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 492-496.	0.8	62
40	A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4031-4047.	6.0	61
41	Optimum design of automobile components using lattice structures for additive manufacturing. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 633-639.	0.8	58
42	A novel chaotic Henry gas solubility optimization algorithm for solving real-world engineering problems. <i>Engineering With Computers</i> , 2022, 38, 871-883.	3.5	57
43	A new chaotic Levy flight distribution optimization algorithm for solving constrained engineering problems. <i>Expert Systems</i> , 2022, 39, .	2.9	53
44	Experimental and numerical fatigue-based design optimisation of clutch diaphragm spring in the automotive industry. <i>International Journal of Vehicle Design</i> , 2019, 80, 330.	0.1	50
45	Topography and topology optimization of diesel engine components for light-weight design in the automotive industry. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 27-34.	0.8	39
46	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. <i>International Journal of Vehicle Design</i> , 2019, 80, 285.	0.1	37
47	Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 448-452.	0.8	37
48	Comparative investigation of the moth-flame algorithm and whale optimization algorithm for optimal spur gear design. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 266-271.	0.8	33
49	Hunger games search algorithm for global optimization of engineering design problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 524-532.	0.8	33
50	A new hybrid artificial hummingbird-simulated annealing algorithm to solve constrained mechanical engineering problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 1043-1050.	0.8	29
51	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. <i>International Journal of Vehicle Design</i> , 2017, 73, 20.	0.1	27
52	Manta ray foraging optimization algorithm and hybrid Taguchi salp swarm-Nelder-Mead algorithm for the structural design of engineering components. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 706-713.	0.8	24
53	Gradient-based optimizer for economic optimization of engineering problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 690-696.	0.8	23
54	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. <i>International Journal of Vehicle Design</i> , 2019, 80, 121.	0.1	22

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55	Multiobjective crashworthiness optimization of graphene type multi-cell tubes under various loading conditions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	21
56	Efficient decoupling-assisted evolutionary/metaheuristic framework for expensive reliability-based design optimization problems. Expert Systems With Applications, 2022, 205, 117640.	4.4	21
57	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. International Journal of Vehicle Design, 2019, 80, 121.	0.1	20
58	Multi-objective optimization of build orientation considering support structure volume and build time in laser powder bed fusion. Materialpruefung/Materials Testing, 2022, 64, 323-338.	0.8	20
59	A Pricing Based Algorithm for Cell Switching Off in Green Cellular Networks. , 2013, , .		18
60	Light-weight design of automobile suspension components using topology and shape optimization techniques. Materialpruefung/Materials Testing, 2020, 62, 454-464.	0.8	15
61	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. International Journal of Vehicle Design, 2019, 80, 285.	0.1	14
62	Hybrid Taguchi-LÃ©vy flight distribution optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2021, 63, 547-551.	0.8	13
63	Mixed reliability-oriented topology optimization for thermo-mechanical structures with multi-source uncertainties. Engineering With Computers, 2022, 38, 5489-5505.	3.5	13
64	Qualitative and Quantitative Performance Comparison of Recent Optimization Algorithms for Economic Optimization of the Heat Exchangers. Archives of Computational Methods in Engineering, 2021, 28, 2881-2896.	6.0	12
65	A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. Materialpruefung/Materials Testing, 2021, 63, 453-457.	0.8	11
66	A comparative analysis of the queuing search algorithm, the sine-cosine algorithm, the ant lion algorithm to determine the optimal weight design problem of a spur gear drive system. Materialpruefung/Materials Testing, 2021, 63, 442-447.	0.8	9
67	Optimum design of an air suspension seat using recent structural optimization techniques. Materialpruefung/Materials Testing, 2020, 62, 242-250.	0.8	8
68	Optimization of constrained mechanical design problems using the equilibrium optimization algorithm. Materialpruefung/Materials Testing, 2021, 63, 552-559.	0.8	7
69	Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design. Knowledge-Based Systems, 2022, 239, 107955.	4.0	7
70	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564.	0.8	4
71	Optimal design of aerospace structures using recent meta-heuristic algorithms. Materialpruefung/Materials Testing, 2021, 63, 1025-1031.	0.8	2
72	Hybrid spotted hyenaâ€œNelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. Materialpruefung/Materials Testing, 2021, 63, 293-298.	0.8	1

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73	Release Bearing Characteristic of Diaphragm Spring under Dynamical Condition. , 0, , .		1
74	On the comparative performance of recent swarm intelligence based algorithms for optimization of real-life Sterling cycle operated refrigeration/liquefaction system. Artificial Intelligence Review, 2023, 56, 1297-1317.	9.7	1
75	Fair resource allocation in OFDMA based relayed transmission. , 2012, , .		0