Ali Riza Yildiz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5589270/publications.pdf

Version: 2024-02-01

75 papers	4,458 citations	57719 44 h-index	106281 65 g-index
79 all docs	79 docs citations	79 times ranked	1655 citing authors

#	Article	IF	Citations
1	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
2	A novel chaotic Henry gas solubility optimization algorithm forÂsolvingÂreal-world engineering problems. Engineering With Computers, 2022, 38, 871-883.	3.5	57
3	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
4	Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design. Knowledge-Based Systems, 2022, 239, 107955.	4.0	7
5	A new chaotic LÃ©vy flight distribution optimization algorithm for solving constrained engineering problems. Expert Systems, 2022, 39, .	2.9	53
6	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
7	Hunger games search algorithm for global optimization of engineering design problems. Materialpruefung/Materials Testing, 2022, 64, 524-532.	0.8	33
8	Gradient-based optimizer for economic optimization of engineering problems. Materialpruefung/Materials Testing, 2022, 64, 690-696.	0.8	23
9	Manta ray foraging optimization algorithm and hybrid Taguchi salp swarm-Nelderâ€“Mead algorithm for the structural design of engineering components. Materialpruefung/Materials Testing, 2022, 64, 706-713.	0.8	24
10	Efficient decoupling-assisted evolutionary/metaheuristic framework for expensive reliability-based design optimization problems. Expert Systems With Applications, 2022, 205, 117640.	4.4	21
11	Mixed reliability-oriented topology optimization for thermo-mechanical structures with multi-source uncertainties. Engineering With Computers, 2022, 38, 5489-5505.	3.5	13
12	A new hybrid artificial hummingbird-simulated annealing algorithm to solve constrained mechanical engineering problems. Materialpruefung/Materials Testing, 2022, 64, 1043-1050.	0.8	29
13	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
14	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
15	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
16	A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. Archives of Computational Methods in Engineering, 2021, 28, 4031-4047.	6.0	61
17	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. Expert Systems, 2021, 38, e12666.	2.9	83
18	A new Hybrid Taguchi-salp swarm optimization algorithm for the robust design of real-world engineering problems. Materialpruefung/Materials Testing, 2021, 63, 157-162.	0.8	88

#	Article	IF	Citations
19	Comparative investigation of the moth-flame algorithm and whale optimization algorithm for optimal spur gear design. Materialpruefung/Materials Testing, 2021, 63, 266-271.	0.8	33
20	Hybrid spotted hyenaâ€“Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. Materialpruefung/Materials Testing, 2021, 63, 293-298.	0.8	1
21	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
22	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. Materialpruefung/Materials Testing, 2021, 63, 336-340.	0.8	80
23	Comparision of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. Materialpruefung/Materials Testing, 2021, 63, 356-359.	0.8	85
24	Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications. Materialpruefung/Materials Testing, 2021, 63, 448-452.	0.8	37
25	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
26	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
27	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564.	0.8	4
28	Optimization of constrained mechanical design problems using the equilibrium optimization algorithm. Materialpruefung/Materials Testing, 2021, 63, 552-559.	0.8	7
29	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
30	Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems. Expert Systems With Applications, 2021, 183, 115351.	4.4	91
31	Optimal design of aerospace structures using recent meta-heuristic algorithms. Materialpruefung/Materials Testing, 2021, 63, 1025-1031.	0.8	2
32	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
33	Comparison of recent optimization algorithms for design optimization of a cam-follower mechanism. Knowledge-Based Systems, 2020, 191, 105237.	4.0	87
34	Self-adaptive many-objective meta-heuristic based on decomposition for many-objective conceptual design of a fixed wing unmanned aerial vehicle. Aerospace Science and Technology, 2020, 100, 105783.	2.5	79
35	Optimum design of an air suspension seat using recent structural optimization techniques. Materialpruefung/Materials Testing, 2020, 62, 242-250.	0.8	8
36	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

#	Article	IF	Citations
37	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. Materialpruefung/Materials Testing, 2020, 62, 261-264.	0.8	72
38	Butterfly optimization algorithm for optimum shape design of automobile suspension components. Materialpruefung/Materials Testing, 2020, 62, 365-370.	0.8	69
39	The equilibrium optimization algorithm and the response surface-based metamodel for optimal structural design of vehicle components. Materialpruefung/Materials Testing, 2020, 62, 492-496.	0.8	62
40	Optimum design of automobile components using lattice structures for additive manufacturing. Materialpruefung/Materials Testing, 2020, 62, 633-639.	0.8	58
41	Seagull optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2020, 62, 640-644.	0.8	88
42	Light-weight design of automobile suspension components using topology and shape optimization techniques. Materialpruefung/Materials Testing, 2020, 62, 454-464.	0.8	15
43	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. International Journal of Vehicle Design, 2019, 80, 121.	0.1	22
44	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. International Journal of Vehicle Design, 2019, 80, 285.	0.1	37
45	Experimental and numerical fatigue-based design optimisation of clutch diaphragm spring in the automotive industry. International Journal of Vehicle Design, 2019, 80, 330.	0.1	50
46	A novel hybrid whaleâ€“Nelderâ€“Mead algorithm for optimization of design and manufacturing problems. International Journal of Advanced Manufacturing Technology, 2019, 105, 5091-5104.	1.5	91
47	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. International Journal of Vehicle Design, 2019, 80, 121.	0.1	20
48	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. International Journal of Vehicle Design, 2019, 80, 285.	0.1	14
49	Topography and topology optimization of diesel engine components for light-weight design in the automotive industry. Materialpruefung/Materials Testing, 2019, 61, 27-34.	0.8	39
50	A new hybrid approach for reliability-based design optimization of structural components. Materialpruefung/Materials Testing, 2019, 61, 111-119.	0.8	68
51	The Harris hawks, grasshopper and multi-verse optimization algorithms for the selection of optimal machining parameters in manufacturing operations. Materialpruefung/Materials Testing, 2019, 61, 725-733.	0.8	74
52	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
53	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
54	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

#	Article	IF	Citations
55	Lightweight design of an automobile hinge component using glass fiber polyamide composites. Materialpruefung/Materials Testing, 2018, 60, 306-310.	0.8	70
56	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
57	An experimental and numerical investigation of the effects of geometry and spot welds on the crashworthiness of vehicle thin-walled structures. Materialpruefung/Materials Testing, 2018, 60, 553-561.	0.8	65
58	An investigation of the crash performance of magnesium, aluminum and advanced high strength steels and different cross-sections for vehicle thin-walled energy absorbers. Materialpruefung/Materials Testing, 2018, 60, 661-668.	0.8	74
59	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
60	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
61	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	27
62	Moth-flame optimization algorithm to determine optimal machining parameters in manufacturing processes. Materialpruefung/Materials Testing, 2017, 59, 425-429.	0.8	113
63	Structural design of vehicle components using gravitational search and charged system search algorithms. Materialpruefung/Materials Testing, 2016, 58, 79-81.	0.8	81
64	Optimization of thin-wall structures using hybrid gravitational search and Nelder-Mead algorithm. Materialpruefung/Materials Testing, 2016, 58, 75-78.	0.8	88
65	A Pricing Based Algorithm for Cell Switching Off in Green Cellular Networks. , 2013, , .		18
66	Fair resource allocation in OFDMA based relayed transmission. , 2012, , .		0
67	Hybrid Taguchi-Harmony Search Approach for Shape Optimization. Studies in Computational Intelligence, 2010, , 89-98.	0.7	65
68	A novel hybrid immune algorithm for global optimization in design and manufacturing. Robotics and Computer-Integrated Manufacturing, 2009, 25, 261-270.	6.1	176
69	A new design optimization framework based on immune algorithm and Taguchi's method. Computers in Industry, 2009, 60, 613-620.	5.7	109
70	A novel particle swarm optimization approach for product design and manufacturing. International Journal of Advanced Manufacturing Technology, 2009, 40, 617-628.	1.5	190
71	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
72	Hybrid immune-simulated annealing algorithm for optimal design and manufacturing. International Journal of Materials and Product Technology, 2009, 34, 217.	0.1	74

#	Article	IF	Citations
73	Optimal Structural Design of Vehicle Components Using Topology Design and Optimization. Materialpruefung/Materials Testing, 2008, 50, 224-228.	0.8	65
74	Optimal design of vehicle components using topology design and optimisation. International Journal of Vehicle Design, 2004, 34, 387.	0.1	74
75	Release Bearing Characteristic of Diaphragm Spring under Dynamical Condition. , 0, , .		1