

# Ali Wagdy Mohamed

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

2,845  
citations

257101

24  
h-index

205818

48  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gaining-sharing knowledge based algorithm for solving optimization problems: a novel nature-inspired algorithm. International Journal of Machine Learning and Cybernetics, 2020, 11, 1501-1529.	2.3	271
2	Metaheuristic Algorithms on Feature Selection: A Survey of One Decade of Research (2009-2019). IEEE Access, 2021, 9, 26766-26791.	2.6	237
3	Adaptive guided differential evolution algorithm with novel mutation for numerical optimization. International Journal of Machine Learning and Cybernetics, 2019, 10, 253-277.	2.3	177
4	Constrained optimization based on modified differential evolution algorithm. Information Sciences, 2012, 194, 171-208.	4.0	175
5	LSHADE with semi-parameter adaptation hybrid with CMA-ES for solving CEC 2017 benchmark problems. , 2017, , .		171
6	Novel mutation strategy for enhancing SHADE and LSHADE algorithms for global numerical optimization. Swarm and Evolutionary Computation, 2019, 50, 100455.	4.5	167
7	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. Soft Computing, 2018, 22, 3215-3235.	2.1	132
8	A novel differential evolution algorithm for solving constrained engineering optimization problems. Journal of Intelligent Manufacturing, 2018, 29, 659-692.	4.4	118
9	An improved differential evolution algorithm with triangular mutation for global numerical optimization. Computers and Industrial Engineering, 2015, 85, 359-375.	3.4	107
10	An alternative differential evolution algorithm for global optimization. Journal of Advanced Research, 2012, 3, 149-165.	4.4	80
11	Evaluating the Performance of Adaptive GainingSharing Knowledge Based Algorithm on CEC 2020 Benchmark Problems. , 2020, , .		74
12	A novel binary gaining-sharing knowledge-based optimization algorithm for feature selection. Neural Computing and Applications, 2021, 33, 5989-6008.	3.2	65
13	LSHADE-SPA memetic framework for solving large-scale optimization problems. Complex & Intelligent Systems, 2019, 5, 25-40.	4.0	64
14	A new method for parameter extraction of solar photovoltaic models using gaining-sharing knowledge based algorithm. Energy Reports, 2021, 7, 3286-3301.	2.5	60
15	Solving large-scale global optimization problems using enhanced adaptive differential evolution algorithm. Complex & Intelligent Systems, 2017, 3, 205-231.	4.0	50
16	Chaotic gaining sharing knowledge-based optimization algorithm: an improved metaheuristic algorithm for feature selection. Soft Computing, 2021, 25, 9505-9528.	2.1	49
17	Differential Evolution Mutations: Taxonomy, Comparison and Convergence Analysis. IEEE Access, 2021, 9, 68629-68662.	2.6	44
18	Real parameter optimization by an effective differential evolution algorithm. Egyptian Informatics Journal, 2013, 14, 37-53.	4.4	43

#	ARTICLE	IF	CITATIONS
19	Enhanced Success History Adaptive DE for Parameter Optimization of Photovoltaic Models. Complexity, 2021, 2021, 1-22.	0.9	43
20	S-shaped and V-shaped gaining-sharing knowledge-based algorithm for feature selection. Applied Intelligence, 2022, 52, 81-112.	3.3	41
21	Gaining-Sharing Knowledge Based Algorithm with Adaptive Parameters Hybrid with IMODE Algorithm for Solving CEC 2021 Benchmark Problems. , 2021, , .		36
22	Enhanced Directed Differential Evolution Algorithm for Solving Constrained Engineering Optimization Problems. International Journal of Applied Metaheuristic Computing, 2019, 10, 1-28.	0.5	35
23	Clinical Data Analysis for Prediction of Cardiovascular Disease Using Machine Learning Techniques. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	31
24	RDEL: Restart Differential Evolution algorithm with Local Search Mutation for global numerical optimization. Egyptian Informatics Journal, 2014, 15, 175-188.	4.4	30
25	Swarm Intelligence Application to UAV Aided IoT Data Acquisition Deployment Optimization. IEEE Access, 2020, 8, 175660-175668.	2.6	29
26	Differential Evolution with Novel Mutation and Adaptive Crossover Strategies for Solving Large Scale Global Optimization Problems. Applied Computational Intelligence and Soft Computing, 2017, 2017, 1-18.	1.6	28
27	Advance Artificial Intelligence Technique for Designing Double T-Shaped Monopole Antenna. Computers, Materials and Continua, 2021, 69, 2983-2995.	1.5	27
28	An efficient modified differential evolution algorithm for solving constrained non-linear integer and mixed-integer global optimization problems. International Journal of Machine Learning and Cybernetics, 2017, 8, 989-1007.	2.3	25
29	Solving knapsack problems using a binary gaining sharing knowledge-based optimization algorithm. Complex & Intelligent Systems, 2022, 8, 43-63.	4.0	25
30	Real-Parameter Unconstrained Optimization Based on Enhanced AGDE Algorithm. Studies in Computational Intelligence, 2019, , 431-450.	0.7	25
31	A Large-Scale Nonlinear Mixed-Binary Goal Programming Model to Assess Candidate Locations for Solar Energy Stations: An Improved Real-Binary Differential Evolution Algorithm with a Case Study. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7909-7921.	0.4	25
32	Gaining-Sharing Knowledge Based Algorithm With Adaptive Parameters for Engineering Optimization. IEEE Access, 2021, 9, 65934-65946.	2.6	21
33	Solving stochastic programming problems using new approach to Differential Evolution algorithm. Egyptian Informatics Journal, 2017, 18, 75-86.	4.4	19
34	A new median-average round Robin scheduling algorithm: An optimal approach for reducing turnaround and waiting time. AEJ - Alexandria Engineering Journal, 2022, 61, 10527-10538.	3.4	17
35	A Nonlinear Goal Programming Model for University Admission Capacity Planning with Modified Differential Evolution Algorithm. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	16
36	A Generalized National Planning Approach for Admission Capacity in Higher Education: A Nonlinear Integer Goal Programming Model with a Novel Differential Evolution Algorithm. Computational Intelligence and Neuroscience, 2016, 2016, 1-14.	1.1	16

#	ARTICLE	IF	CITATIONS
37	Identification of apple diseases in digital images by using the Gaining-sharing knowledge-based algorithm for multilevel thresholding. <i>Soft Computing</i> , 2022, 26, 2587-2623.	2.1	16
38	Improved binary gaining-sharing knowledge-based algorithm with mutation for fault section location in distribution networks. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 393-405.	1.5	16
39	Chaos Embed Marine Predator (CMPA) Algorithm for Feature Selection. <i>Mathematics</i> , 2022, 10, 1411.	1.1	14
40	Fault section diagnosis of power systems with logical operation binary gaining-sharing knowledge-based algorithm. <i>International Journal of Intelligent Systems</i> , 2022, 37, 1057-1080.	3.3	13
41	Enhancing AGDE Algorithm Using Population Size Reduction for Global Numerical Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 62-72.	0.5	13
42	Guided Hybrid Modified Simulated Annealing Algorithm for Solving Constrained Global Optimization Problems. <i>Mathematics</i> , 2022, 10, 1312.	1.1	13
43	A New Modified Binary Differential Evolution Algorithm and its Applications. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 1965-1969.	0.7	12
44	A constrained cooperative adaptive multi-population differential evolutionary algorithm for economic load dispatch problems. <i>Applied Soft Computing Journal</i> , 2022, 121, 108719.	4.1	12
45	Forgetting velocity based improved comprehensive learning particle swarm optimization for non-convex economic dispatch problems with valve-point effects and multi-fuel options. <i>Energy</i> , 2022, 256, 124511.	4.5	12
46	Adaptive Differential Evolution Based on Successful Experience Information. <i>IEEE Access</i> , 2020, 8, 164611-164636.	2.6	11
47	Optimum Location of Field Hospitals for COVID-19: A Nonlinear Binary Metaheuristic Algorithm. <i>Computers, Materials and Continua</i> , 2021, 68, 1183-1202.	1.5	10
48	Neural Knapsack: A Neural Network Based Solver for the Knapsack Problem. <i>IEEE Access</i> , 2020, 8, 224200-224210.	2.6	8
49	Generalized Adaptive Differential Evolution algorithm for Solving CEC 2020 Benchmark Problems. , 2020, , .		8
50	Enhanced harmony search algorithm with circular region perturbation for global optimization problems. <i>Applied Intelligence</i> , 2020, 50, 951-975.	3.3	7
51	Advanced Differential Evolution algorithm for global numerical optimization. , 2011, , .		6
52	Solving Constrained Non-linear Integer and Mixed-Integer Global Optimization Problems Using Enhanced Directed Differential Evolution Algorithm. <i>Studies in Computational Intelligence</i> , 2019, , 327-349.	0.7	6
53	Effects of Integrated Fuzzy Logic PID Controller on Satellite Antenna Tracking System. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-11.	1.1	6
54	Harris Hawk Optimization-Based Deep Neural Networks Architecture for Optimal Bidding in the Electricity Market. <i>Mathematics</i> , 2022, 10, 2094.	1.1	6

#	ARTICLE	IF	CITATIONS
55	GSK-RL: Adaptive Gaining-sharing Knowledge algorithm using Reinforcement Learning. , 2021, , .		5
56	Gaining-Sharing Knowledge Based Algorithm for Solving Stochastic Programming Problems. Computers, Materials and Continua, 2022, 71, 2847-2868.	1.5	5
57	Solution of Uncertain Solid Transportation Problem by Integer Gaining Sharing Knowledge Based Optimization Algorithm. , 2020, , .		4
58	A Travelling Disinfection-Man Problem (TDP) for COVID-19: A Nonlinear Binary Constrained Gaining-Sharing Knowledge-Based Optimization Algorithm. Algorithms for Intelligent Systems, 2021, , 291-318.	0.5	4
59	Scheduling shuttle ambulance vehicles for COVID-19 quarantine cases, a multi-objective multiple Oâ€™1 knapsack model with a novel Discrete Binary Gaining-Sharing knowledge-based optimization algorithm. , 2021, , 675-698.		4
60	A Multistage Procedure for Optimal Distribution of Preparatory-Year Students to Faculties and Departments: A Mixed Integer Nonlinear Goal Programming Model with Enhanced Differential Evolution Algorithm. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7847-7863.	0.4	4
61	Higher Education Admission Capacity Planning Using a Large Scale Nonlinear Integer Goal Programming Model with Improved Differential Evolution Algorithm. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7864-7878.	0.4	4
62	Control Parameters in Differential Evolution (DE): A Short Review. Robotics & Automation Engineering Journal, 2018, 3, .	0.1	4
63	Differential Evolution (DE): A Short Review. Robotics & Automation Engineering Journal, 2017, 2, .	0.1	4
64	Graph Transformer for Communities Detection in Social Networks. Computers, Materials and Continua, 2022, 70, 5707-5720.	1.5	4
65	Airport terminal building capacity evaluation using queuing system. AEJ - Alexandria Engineering Journal, 2022, 61, 10109-10118.	3.4	4
66	Development and Applications of Augmented Whale Optimization Algorithm. Mathematics, 2022, 10, 2076.	1.1	4
67	Stochastic Travelling Advisor Problem Simulation with a Case Study: A Novel Binary Gaining-Sharing Knowledge-Based Optimization Algorithm. Complexity, 2020, 2020, 1-15.	0.9	3
68	Optimum Distribution of Protective Materials for COVIDâ€™19 with a Discrete Binary Gaining-Sharing Knowledge-Based Optimization Algorithm. EAI/Springer Innovations in Communication and Computing, 2021, , 135-157.	0.9	3
69	Deep Stacked Ensemble Learning Model for COVID-19 Classification. Computers, Materials and Continua, 2022, 70, 5467-5469.	1.5	3
70	Dark Web Data Classification Using Neural Network. Computational Intelligence and Neuroscience, 2022, 2022, 1-11.	1.1	3
71	HNIO: A Hybrid Nature-Inspired Optimization Algorithm for Energy Minimization in UAV-Assisted Mobile Edge Computing. IEEE Transactions on Network and Service Management, 2022, 19, 3264-3275.	3.2	3
72	An efficient algorithm for data parallelism based on stochastic optimization. AEJ - Alexandria Engineering Journal, 2022, 61, 12005-12017.	3.4	3

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73	Design of the Baseband Physical Layer of NarrowBand IoT LTE Uplink Digital Transmitter. Journal of Circuits, Systems and Computers, 2020, 29, 2050111.	1.0	2
74	An Artificial Intelligence Approach for Solving Stochastic Transportation Problems. Computers, Materials and Continua, 2022, 70, 817-829.	1.5	2
75	Application of Water Cycle Algorithm to Stochastic Fractional Programming Problems. International Journal of Swarm Intelligence Research, 2021, 13, 1-21.	0.5	2
76	Improved fish migration optimization with the opposition learning based on elimination principle for cluster head selection. Wireless Networks, 2022, 28, 1017-1038.	2.0	2
77	Optimum Scheduling the Electric Distribution Substations with a Case Study: An Integer Gaining-Sharing Knowledge-Based Metaheuristic Algorithm. Complexity, 2020, 2020, 1-13.	0.9	1
78	Managing Delivery of Safeguarding Substances as a Mitigation Against Outbreaks of Pandemics. Computers, Materials and Continua, 2021, 68, 1161-1181.	1.5	1
79	Using Machine Learning Algorithms for Breast Cancer Diagnosis. International Journal of Applied Metaheuristic Computing, 2021, 12, 117-137.	0.5	1
80	A New Modified Binary Differential Evolution Algorithm and its Applications. Sohag Journal of Sciences, 2016, 1, 29-35.	0.1	1
81	A Novel Discrete Binary Gaining-Sharing Knowledge-Based Optimization Algorithm for the Travelling Counselling Problem for Utilization of Solar Energy. International Journal of Swarm Intelligence Research, 2021, 13, 1-24.	0.5	1
82	Large Scale Global Optimization Algorithms for IoT Networks: A Comparative Study. , 2021, , .		1
83	A Generalized Model for Scheduling Multi-Objective Multiple Shuttle Ambulance Vehicles to Evacuate COVID-19 Quarantine Cases. Profiles in Operations Research, 2022, , 287-303.	0.3	1
84	Online Bus Services. Advances in Logistics, Operations, and Management Science Book Series, 2021, , 178-188.	0.3	0
85	Optimum Scheduling of the Disinfection Process for COVID-19 in Public Places with a Case Study from Egypt, a Novel Discrete Binary Gaining-Sharing Knowledge-Based Metaheuristic Algorithm. Studies in Systems, Decision and Control, 2021, , 215-228.	0.8	0
86	A Stochastic Flight Problem Simulation to Minimize Cost of Refuelling. Computers, Materials and Continua, 2021, 69, 849-871.	1.5	0
87	A Novel Multi-Objective Nonlinear Discrete Binary Gaining-Sharing knowledge-based Optimization Algorithm Optimum Scheduling of Flights for Residual S. International Journal of Applied Metaheuristic Computing, 2022, 13, 0-0.	0.5	0
88	A multiobjective nonlinear combinatorial model for improved planning of tour visits using a novel binary gaining-sharing knowledge- based optimization algorithm. , 2022, , 237-264.		0