

Mohamed Abd El Aziz

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

306
papers

9,147
citations

49
h-index

84
g-index

324
ext. papers

14,075
ext. citations

4.5
avg, IF

7.8
L-index

#	Paper	IF	Citations
306	Improving Crisis Events Detection Using DistilBERT with Hunger Games Search Algorithm. <i>Mathematics</i> , 2022 , 10, 447	2.3	5
305	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. <i>Mathematics</i> , 2022 , 10, 464	2.3	9
304	An Efficient 5G Data Plan Approach Based on Partially Distributed Mobility Architecture.. <i>Sensors</i> , 2022 , 22,	3.8	5
303	Meta-heuristic optimization algorithms for solving real-world mechanical engineering design problems: a comprehensive survey, applications, comparative analysis, and results. <i>Neural Computing and Applications</i> , 2022 , 34, 4081	4.8	8
302	Wind, Solar, and Photovoltaic Renewable Energy Systems with and without Energy Storage Optimization: A Survey of Advanced Machine Learning and Deep Learning Techniques. <i>Energies</i> , 2022 , 15, 578	3.1	10
301	Modified marine predators algorithm for feature selection: case study metabolomics. <i>Knowledge and Information Systems</i> , 2022 , 64, 261-287	2.4	3
300	An Enhanced Grey Wolf Optimizer with a Velocity-Aided Global Search Mechanism. <i>Mathematics</i> , 2022 , 10, 351	2.3	5
299	Modeling of a solar-powered thermoelectric air-conditioning system using a random vector functional link network integrated with jellyfish search algorithm. <i>Case Studies in Thermal Engineering</i> , 2022 , 31, 101797	5.6	7
298	An Improved Hybrid Swarm Intelligence for Scheduling IoT Application Tasks in the Cloud. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	10
297	An efficient multi-thresholding based COVID-19 CT images segmentation approach using an improved equilibrium optimizer. <i>Biomedical Signal Processing and Control</i> , 2022 , 73, 103401	4.9	9
296	Discrete fractional-order Caputo method to overcome trapping in local optima: Manta Ray Foraging Optimizer as a case study. <i>Expert Systems With Applications</i> , 2022 , 192, 116355	7.8	1
295	Fractional-order comprehensive learning marine predators algorithm for global optimization and feature selection. <i>Knowledge-Based Systems</i> , 2022 , 235, 107603	7.3	3
294	A biological sub-sequences detection using integrated BA-PSO based on infection propagation mechanism: Case study COVID-19. <i>Expert Systems With Applications</i> , 2022 , 189, 116063	7.8	4
293	Efficient high-dimension feature selection based on enhanced equilibrium optimizer. <i>Expert Systems With Applications</i> , 2022 , 187, 115882	7.8	0
292	Multi-ResAtt: Multilevel Residual Network with Attention for Human Activity Recognition Using Wearable Sensors. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	2
291	Modified Interactive Algorithm Based on Runge Kutta Optimizer for Photovoltaic Modeling: Justification Under Partial Shading and Varied Temperature Conditions. <i>IEEE Access</i> , 2022 , 10, 20793-20815	3.5	0
290	Enhanced Feature Selection Based on Integration Containment Neighborhoods Rough Set Approximations and Binary Honey Badger Optimization.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 3991870	3	0

289	Maximizing Sustainability in Reservoir Operation under Climate Change Using a Novel Adaptive Accelerated Gravitational Search Algorithm. <i>Water (Switzerland)</i> , 2022 , 14, 905	3	0
288	Utilizing a Long Short-Term Memory Algorithm Modified by Dwarf Mongoose Optimization to Predict Thermal Expansion of Cu-Al ₂ O ₃ Nanocomposites. <i>Mathematics</i> , 2022 , 10, 1050	2.3	3
287	Adaptive Machine Learning Based Distributed Denial-of-Services Attacks Detection and Mitigation System for SDN-Enabled IoT.. <i>Sensors</i> , 2022 , 22,	3.8	3
286	Boosting Marine Predators Algorithm by Salp Swarm Algorithm for Multilevel Thresholding Image Segmentation.. <i>Multimedia Tools and Applications</i> , 2022 , 1-36	2.5	4
285	Feature Selection Model Based on Gorilla Troops Optimizer for Intrusion Detection Systems. <i>Journal of Sensors</i> , 2022 , 2022, 1-12	2	0
284	An Intelligent Chimp Optimizer for Scheduling of IoT Application Tasks in Fog Computing. <i>Mathematics</i> , 2022 , 10, 1100	2.3	3
283	Boosting Ant Colony Optimization with Reptile Search Algorithm for Churn Prediction. <i>Mathematics</i> , 2022 , 10, 1031	2.3	3
282	Discrete Generalized Inverted Exponential Distribution: Case Study Color Image Segmentation. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-17	1.1	
281	Hybridizing of Whale and Moth-Flame Optimization Algorithms to Solve Diverse Scales of Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2022 , 11, 831	2.6	7
280	Enhanced Flow Direction Arithmetic Optimization Algorithm for mathematical optimization problems with applications of data clustering. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 138, 13-29	2.6	4
279	Boosted ANFIS model using augmented marine predator algorithm with mutation operators for wind power forecasting. <i>Applied Energy</i> , 2022 , 314, 118851	10.7	11
278	Population-based self-adaptive Generalised Masi Entropy for image segmentation: A novel representation. <i>Knowledge-Based Systems</i> , 2022 , 245, 108610	7.3	2
277	Static models for implementing photovoltaic panels characteristics under various environmental conditions using improved gradient-based optimizer. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102150	4.7	0
276	Utilization of Improved Machine Learning Method Based on Artificial Hummingbird Algorithm to Predict the Tribological Behavior of Cu-Al ₂ O ₃ Nanocomposites Synthesized by In Situ Method. <i>Mathematics</i> , 2022 , 10, 1266	2.3	5
275	A Cox Proportional-Hazards Model Based on an Improved Aquila Optimizer with Whale Optimization Algorithm Operators. <i>Mathematics</i> , 2022 , 10, 1273	2.3	2
274	Efficient text document clustering approach using multi-search Arithmetic Optimization Algorithm. <i>Knowledge-Based Systems</i> , 2022 , 248, 108833	7.3	2
273	Performance prediction of solar still with a high-frequency ultrasound waves atomizer using random vector functional link/heap-based optimizer. <i>Advances in Engineering Software</i> , 2022 , 170, 103142	2.6	0
272	Predicting kerf quality characteristics in laser cutting of basalt fibers reinforced polymer composites using neural network and chimp optimization. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 11005-11018	6.1	5

271	Aquila Optimizer Based PSO Swarm Intelligence for IoT Task Scheduling Application in Cloud Computing. <i>Studies in Computational Intelligence</i> , 2022 , 481-497	0.8	3
270	Medical Image Classification Utilizing Ensemble Learning and Levy Flight-Based Honey Badger Algorithm on 6G-Enabled Internet of Things. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-17	3	1
269	Evaluation of Weighted Nuclear Norm Minimization Algorithm for Ultrasound Image Denoising. <i>Wireless Communications and Mobile Computing</i> , 2022 , 2022, 1-13	1.9	0
268	Dynamic Jellyfish Search Algorithm Based on Simulated Annealing and Disruption Operators for Global Optimization with Applications to Cloud Task Scheduling. <i>Mathematics</i> , 2022 , 10, 1894	2.3	0
267	Intrusion Detection System for IoT Based on Deep Learning and Modified Reptile Search Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-15	3	4
266	IoT Workflow Scheduling Using Intelligent Arithmetic Optimization Algorithm in Fog Computing.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9114113	3	9
265	Migration-Based Moth-Flame Optimization Algorithm. <i>Processes</i> , 2021 , 9, 2276	2.9	18
264	Boosting COVID-19 Image Classification Using MobileNetV3 and Aquila Optimizer Algorithm. <i>Entropy</i> , 2021 , 23,	2.8	18
263	Boosting Atomic Orbit Search Using Dynamic-Based Learning for Feature Selection. <i>Mathematics</i> , 2021 , 9, 2786	2.3	5
262	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2021 , 116158	7.8	120
261	Breast cancer detection from thermal images using a Grunwald-Letnikov-aided Dragonfly algorithm-based deep feature selection method. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105027	7	6
260	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2021 , 10, 2975	2.6	13
259	Predicting the mechanical properties of CuAl ₂ O ₃ nanocomposites using machine learning and finite element simulation of indentation experiments. <i>Ceramics International</i> , 2021 ,	5.1	7
258	Survey on Twitter Sentiment Analysis: Architecture, Classifications, and Challenges. <i>Signals and Communication Technology</i> , 2021 , 1-18	0.5	3
257	Class Diagram Generation from Text Requirements: An Application of Natural Language Processing. <i>Signals and Communication Technology</i> , 2021 , 55-79	0.5	
256	Binary Horse herd optimization algorithm with crossover operators for feature selection.. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105152	7	5
255	Optimized Random Vector Functional Link network to predict oil production from Tahe oil field in China. <i>Oil and Gas Science and Technology</i> , 2021 , 76, 3	1.9	5
254	Gender Classification Using Proposed CNN-Based Model and Ant Colony Optimization. <i>Mathematics</i> , 2021 , 9, 2499	2.3	2

253	Arabic Offensive and Hate Speech Detection Using a Cross-Corpora Multi-Task Learning Model. <i>Informatics</i> , 2021 , 8, 69	2.2	6
252	A multi-objective gradient optimizer approach-based weighted multi-view clustering. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 106, 104480	7.2	2
251	Improved ANFIS model for forecasting Wuhan City Air Quality and analysis COVID-19 lockdown impacts on air quality. <i>Environmental Research</i> , 2021 , 194, 110607	7.9	25
250	COVID-19 X-ray images classification based on enhanced fractional-order cuckoo search optimizer using heavy-tailed distributions. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107052	7.5	35
249	Automatic selection of heavy-tailed distributions-based synergy Henry gas solubility and Harris hawk optimizer for feature selection: case study drug design and discovery. <i>Artificial Intelligence Review</i> , 2021 , 54, 4685-4730	9.7	2
248	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. <i>Advances in Engineering Software</i> , 2021 , 154, 102973	3.6	17
247	An efficient retinal blood vessel segmentation in eye fundus images by using optimized top-hat and homomorphic filtering. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 201, 105949	6.9	17
246	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. <i>Neural Computing and Applications</i> , 2021 , 33, 14079	4.8	14
245	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 376, 113609	5.7	500
244	Modified whale optimization algorithm for solving unrelated parallel machine scheduling problems. <i>Soft Computing</i> , 2021 , 25, 9545-9557	3.5	5
243	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. <i>Cluster Computing</i> , 2021 , 24, 2957	2.1	25
242	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. <i>Energy Conversion and Management</i> , 2021 , 236, 113971	10.6	14
241	Augmented grasshopper optimization algorithm by differential evolution: a power scheduling application in smart homes. <i>Multimedia Tools and Applications</i> , 2021 , 80, 31569	2.5	4
240	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. <i>Electronics (Switzerland)</i> , 2021 , 10, 1332	2.6	15
239	Enhanced salp swarm algorithm based on firefly algorithm for unrelated parallel machine scheduling with setup times. <i>Applied Mathematical Modelling</i> , 2021 , 94, 285-305	4.5	12
238	Aquila Optimizer: A novel meta-heuristic optimization algorithm. <i>Computers and Industrial Engineering</i> , 2021 , 157, 107250	6.4	347
237	A selection hyperheuristic guided by Thompson sampling for numerical optimization 2021 ,		1
236	A new optimized predictive model based on political optimizer for eco-friendly MQL-turning of AISI 4340 alloy with nano-lubricants. <i>Journal of Manufacturing Processes</i> , 2021 , 67, 562-578	5	34

235	Predicting the performance of solar dish Stirling power plant using a hybrid random vector functional link/chimp optimization model. <i>Solar Energy</i> , 2021 , 222, 1-17	6.8	17
234	A Hybrid MultiLayer Perceptron Under-Sampling with Bagging Dealing with a Real-Life Imbalanced Rice Dataset. <i>Information (Switzerland)</i> , 2021 , 12, 291	2.6	0
233	Ant Lion Optimizer: A Comprehensive Survey of Its Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1397-1416	7.8	57
232	Efficient image segmentation through 2D histograms and an improved owl search algorithm. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 131-150	3.8	3
231	Improving the segmentation of magnetic resonance brain images using the LSHADE optimization algorithm. <i>Biomedical Signal Processing and Control</i> , 2021 , 64, 102259	4.9	12
230	A novel Black Widow Optimization algorithm for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2021 , 167, 114159	7.8	56
229	Deep learning-based forecasting model for COVID-19 outbreak in Saudi Arabia. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 223-233	5.5	41
228	Color face recognition using novel fractional-order multi-channel exponent moments. <i>Neural Computing and Applications</i> , 2021 , 33, 5419-5435	4.8	11
227	Prediction of laser cutting parameters for polymethylmethacrylate sheets using random vector functional link network integrated with equilibrium optimizer. <i>Journal of Intelligent Manufacturing</i> , 2021 , 32, 1377-1388	6.7	50
226	A new multi-objective optimization algorithm combined with opposition-based learning. <i>Expert Systems With Applications</i> , 2021 , 165, 113844	7.8	12
225	Fast multi-feature image segmentation. <i>Applied Mathematical Modelling</i> , 2021 , 90, 742-757	4.5	6
224	Utilization of LSTM neural network for water production forecasting of a stepped solar still with a corrugated absorber plate. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 273-282	5.5	60
223	Efficient artificial intelligence forecasting models for COVID-19 outbreak in Russia and Brazil. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 399-409	5.5	22
222	An improved Henry gas solubility optimization algorithm for task scheduling in cloud computing. <i>Artificial Intelligence Review</i> , 2021 , 54, 3599-3637	9.7	15
221	A GrunwaldLeitnikov based Manta ray foraging optimizer for global optimization and image segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 98, 104105	7.2	19
220	Machine learning algorithms for improving the prediction of air injection effect on the thermohydraulic performance of shell and tube heat exchanger. <i>Applied Thermal Engineering</i> , 2021 , 185, 116471	5.8	19
219	Ant colony optimization with horizontal and vertical crossover search: Fundamental visions for multi-threshold image segmentation. <i>Expert Systems With Applications</i> , 2021 , 167, 114122	7.8	49
218	BEPO: A novel binary emperor penguin optimizer for automatic feature selection. <i>Knowledge-Based Systems</i> , 2021 , 211, 106560	7.3	77

217	Automatic clustering method to segment COVID-19 CT images. <i>PLoS ONE</i> , 2021 , 16, e0244416	3.7	6
216	Fractional Calculus-Based Slime Mould Algorithm for Feature Selection Using Rough Set. <i>IEEE Access</i> , 2021 , 9, 131625-131636	3.5	4
215	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. <i>Electronics (Switzerland)</i> , 2021 , 10, 101	2.6	27
214	Drug Design and Discovery: Theory, Applications, Open Issues and Challenges. <i>Studies in Computational Intelligence</i> , 2021 , 337-358	0.8	
213	IoT Intrusion Detection System Using Deep Learning and Enhanced Transient Search Optimization. <i>IEEE Access</i> , 2021 , 9, 123448-123464	3.5	9
212	Optimized ANFIS Model Using Aquila Optimizer for Oil Production Forecasting. <i>Processes</i> , 2021 , 9, 1194	2.9	22
211	A new random vector functional link integrated with mayfly optimization algorithm for performance prediction of solar photovoltaic thermal collector combined with electrolytic hydrogen production system. <i>Applied Thermal Engineering</i> , 2021 , 193, 117055	5.8	20
210	Classification of Apple Disease Based on Non-Linear Deep Features. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6422	2.6	5
209	An Enhanced Evolutionary Software Defect Prediction Method Using Island Moth Flame Optimization. <i>Mathematics</i> , 2021 , 9, 1722	2.3	9
208	A multi-leader whale optimization algorithm for global optimization and image segmentation. <i>Expert Systems With Applications</i> , 2021 , 175, 114841	7.8	7
207	Cooperative meta-heuristic algorithms for global optimization problems. <i>Expert Systems With Applications</i> , 2021 , 176, 114788	7.8	4
206	A Novel Hybrid Gradient-Based Optimizer and Grey Wolf Optimizer Feature Selection Method for Human Activity Recognition Using Smartphone Sensors. <i>Entropy</i> , 2021 , 23,	2.8	15
205	A new fine-tuned random vector functional link model using Hunger games search optimizer for modeling friction stir welding process of polymeric materials. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1482-1493	5.5	25
204	Boosting Arithmetic Optimization Algorithm with Genetic Algorithm Operators for Feature Selection: Case Study on Cox Proportional Hazards Model. <i>Mathematics</i> , 2021 , 9, 2321	2.3	23
203	Modeling of drilling process of GFRP composite using a hybrid random vector functional link network/parasitism-predation algorithm. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 298-311	5.5	20
202	Modified Artificial Ecosystem-Based Optimization for Multilevel Thresholding Image Segmentation. <i>Mathematics</i> , 2021 , 9, 2363	2.3	10
201	Real-time epileptic seizure recognition using Bayesian genetic whale optimizer and adaptive machine learning. <i>Future Generation Computer Systems</i> , 2021 , 127, 426-426	7.5	5
200	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. <i>Entropy</i> , 2021 , 23,	2.8	13

199	Automatic Superpixel-Based Clustering for Color Image Segmentation Using q-Generalized Pareto Distribution under Linear Normalization and Hunger Games Search. <i>Mathematics</i> , 2021 , 9, 2383	2.3	3
198	An efficient Equilibrium Optimizer for parameters identification of photovoltaic modules. <i>PeerJ Computer Science</i> , 2021 , 7, e708	2.7	2
197	Utilization of ensemble random vector functional link network for freshwater prediction of active solar stills with nanoparticles. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101405	4.7	9
196	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. <i>Knowledge-Based Systems</i> , 2021 , 229, 107348	7.3	27
195	Quantum marine predators algorithm for addressing multilevel image segmentation. <i>Applied Soft Computing Journal</i> , 2021 , 110, 107598	7.5	3
194	New feature selection paradigm based on hyper-heuristic technique. <i>Applied Mathematical Modelling</i> , 2021 , 98, 14-37	4.5	5
193	Advanced optimization technique for scheduling IoT tasks in cloud-fog computing environments. <i>Future Generation Computer Systems</i> , 2021 , 124, 142-154	7.5	20
192	A hybrid adaptive neuro-fuzzy inference system integrated with equilibrium optimizer algorithm for predicting the energetic performance of solar dish collector. <i>Energy</i> , 2021 , 235, 121289	7.9	12
191	Utilization of random vector functional link integrated with manta ray foraging optimization for effluent prediction of wastewater treatment plant. <i>Journal of Environmental Management</i> , 2021 , 298, 113520	7.9	17
190	Segmentation of brain MRI using an altruistic Harris Hawks Optimization algorithm. <i>Knowledge-Based Systems</i> , 2021 , 232, 107468	7.3	3
189	Opposition-based moth swarm algorithm. <i>Expert Systems With Applications</i> , 2021 , 184, 115481	7.8	11
188	Multi-level Thresholding Image Segmentation Based on Nature-Inspired Optimization Algorithms: A Comprehensive Review. <i>Studies in Computational Intelligence</i> , 2021 , 239-265	0.8	5
187	Gradient-Based Optimizer for Parameter Extraction in Photovoltaic Models. <i>IEEE Access</i> , 2021 , 9, 13403-13416	3.3	39
186	Multilevel thresholding image segmentation based on improved volleyball premier league algorithm using whale optimization algorithm. <i>Multimedia Tools and Applications</i> , 2021 , 80, 1-34	2.5	12
185	Solving Multi-Objective Problems Using Bird Swarm Algorithm. <i>IEEE Access</i> , 2021 , 9, 36382-36398	3.5	5
184	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. <i>Multimedia Tools and Applications</i> , 2021 , 80, 14979-15016	2.5	14
183	Hybrid Harris Hawks Optimization with Differential Evolution for Data Clustering. <i>Studies in Computational Intelligence</i> , 2021 , 267-299	0.8	1
182	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. <i>Symmetry</i> , 2021 , 13, 2388	2.7	10

181	Advanced Feature Extraction and Selection Approach Using Deep Learning and Aquila Optimizer for IoT Intrusion Detection System.. <i>Sensors</i> , 2021 , 22,	3.8	13
180	Advance artificial time series forecasting model for oil production using neuro fuzzy-based slime mould algorithm.. <i>Journal of Petroleum Exploration and Production</i> , 2021 , 12, 1-13	2.2	2
179	Enhanced Adaptive Neuro-Fuzzy Inference System Using Reptile Search Algorithm for Relating Swelling Potentiality Using Index Geotechnical Properties: A Case Study at El Sherouk City, Egypt. <i>Mathematics</i> , 2021 , 9, 3295	2.3	4
178	Optimal design parameters and performance optimization of thermodynamically balanced dish/Stirling concentrated solar power system using multi-objective particle swarm optimization. <i>Applied Thermal Engineering</i> , 2020 , 178, 115539	5.8	26
177	Enhanced Crow Search Algorithm for Feature Selection. <i>Expert Systems With Applications</i> , 2020 , 159, 113572	7.8	28
176	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11735-11752	10.7	10
175	Job Scheduling in Cloud Computing Using a Modified Harris Hawks Optimization and Simulated Annealing Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2020 , 2020, 3504642	3	41
174	A comprehensive review of moth-flame optimisation: variants, hybrids, and applications. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2020 , 32, 705-725	2	27
173	Optimization Method for Forecasting Confirmed Cases of COVID-19 in China. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	218
172	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. <i>Energy</i> , 2020 , 198, 117333	7.9	74
171	Prediction of the Vaccine-derived Poliovirus Outbreak Incidence: A Hybrid Machine Learning Approach. <i>Scientific Reports</i> , 2020 , 10, 5058	4.9	1
170	Improving image thresholding by the type II fuzzy entropy and a hybrid optimization algorithm. <i>Soft Computing</i> , 2020 , 24, 14885-14905	3.5	8
169	Multi-Level Image Thresholding Based on Modified Spherical Search Optimizer and Fuzzy Entropy. <i>Entropy</i> , 2020 , 22,	2.8	15
168	Improved recognition of bacterial species using novel fractional-order orthogonal descriptors. <i>Applied Soft Computing Journal</i> , 2020 , 95, 106504	7.5	6
167	A Comparative Performance Study of Hybrid Firefly Algorithms for Automatic Data Clustering. <i>IEEE Access</i> , 2020 , 8, 121089-121118	3.5	7
166	A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , 2020 , 147, 106628	6.4	40
165	New machine learning method for image-based diagnosis of COVID-19. <i>PLoS ONE</i> , 2020 , 15, e0235187	3.7	153
164	Eco-friendly coffee-based colloid for performance augmentation of solar stills. <i>Chemical Engineering Research and Design</i> , 2020 , 136, 259-267	5.5	57

163	An improved brainstorm optimization using chaotic opposite-based learning with disruption operator for global optimization and feature selection. <i>Soft Computing</i> , 2020 , 24, 14051-14072	3.5	14
162	Enhancing thermal performance and modeling prediction of developed pyramid solar still utilizing a modified random vector functional link. <i>Solar Energy</i> , 2020 , 198, 399-409	6.8	31
161	Improved Artificial Bee Colony Using Sine-Cosine Algorithm for Multi-Level Thresholding Image Segmentation. <i>IEEE Access</i> , 2020 , 8, 26304-26315	3.5	29
160	An improved volleyball premier league algorithm based on sine cosine algorithm for global optimization problem. <i>Engineering With Computers</i> , 2020 , 37, 2633	4.5	7
159	Combining information from thresholding techniques through an evolutionary Bayesian network algorithm. <i>Applied Soft Computing Journal</i> , 2020 , 90, 106147	7.5	9
158	Handwritten Arabic Optical Character Recognition Approach Based on Hybrid Whale Optimization Algorithm With Neighborhood Rough Set. <i>IEEE Access</i> , 2020 , 8, 23011-23021	3.5	12
157	Classification of galaxy color images using quaternion polar complex exponential transform and binary Stochastic Fractal Search. <i>Astronomy and Computing</i> , 2020 , 31, 100383	2.4	10
156	A competitive chain-based Harris Hawks Optimizer for global optimization and multi-level image thresholding problems. <i>Applied Soft Computing Journal</i> , 2020 , 95, 106347	7.5	47
155	Fractional-order calculus-based flower pollination algorithm with local search for global optimization and image segmentation. <i>Knowledge-Based Systems</i> , 2020 , 197, 105889	7.3	33
154	An efficient Harris hawks-inspired image segmentation method. <i>Expert Systems With Applications</i> , 2020 , 155, 113428	7.8	74
153	. <i>IEEE Access</i> , 2020 , 8, 79896-79907	3.5	35
152	Optimized Forecasting Method for Weekly Influenza Confirmed Cases. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	9
151	Marine Predators Algorithm for Forecasting Confirmed Cases of COVID-19 in Italy, USA, Iran and Korea. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	60
150	Effects of Light Stemming on Feature Extraction and Selection for Arabic Documents Classification. <i>Studies in Computational Intelligence</i> , 2020 , 59-79	0.8	1
149	Improving Adaptive Neuro-Fuzzy Inference System Based on a Modified Salp Swarm Algorithm Using Genetic Algorithm to Forecast Crude Oil Price. <i>Natural Resources Research</i> , 2020 , 29, 2671-2686	4.9	21
148	Multiobjective big data optimization based on a hybrid salp swarm algorithm and differential evolution. <i>Applied Mathematical Modelling</i> , 2020 , 80, 929-943	4.5	25
147	Hyper-heuristic method for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2020 , 146, 113201	7.8	26
146	Boosting salp swarm algorithm by sine cosine algorithm and disrupt operator for feature selection. <i>Expert Systems With Applications</i> , 2020 , 145, 113103	7.8	88

145	Improving multilayer perceptron neural network using chaotic grasshopper optimization algorithm to forecast iron ore price volatility. <i>Resources Policy</i> , 2020 , 65, 101555	7.2	26
144	Performance analysis of Chaotic Multi-Verse Harris Hawks Optimization: A case study on solving engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 88, 103370	7.2	58
143	Binary Whale Optimization Algorithm for Dimensionality Reduction. <i>Mathematics</i> , 2020 , 8, 1821	2.3	28
142	Analyzing COVID-19 virus based on enhanced fragmented biological Local Aligner using improved Ions Motion Optimization algorithm. <i>Applied Soft Computing Journal</i> , 2020 , 96, 106683	7.5	10
141	A novel objective function with artificial ecosystem-based optimization for relieving the mismatching power loss of large-scale photovoltaic array. <i>Energy Conversion and Management</i> , 2020 , 225, 113385	10.6	37
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- 1 A Review of the Use of Quasi-random Number Generators to Initialize the Population in Meta-heuristic Algorithms. *Archives of Computational Methods in Engineering*, 7.8 ○