

Mohamed Abd El Aziz

List of Publications by Citations

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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	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 376, 113609	5.7	500
305	Parameter estimation of photovoltaic cells using an improved chaotic whale optimization algorithm. <i>Applied Energy</i> , 2017 , 200, 141-154	10.7	350
304	Aquila Optimizer: A novel meta-heuristic optimization algorithm. <i>Computers and Industrial Engineering</i> , 2021 , 157, 107250	6.4	347
303	Whale Optimization Algorithm and Moth-Flame Optimization for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2017 , 83, 242-256	7.8	335
302	Parameter identification of solar cells using artificial bee colony optimization. <i>Energy</i> , 2014 , 72, 93-102	7.9	262
301	Modeling of solar energy systems using artificial neural network: A comprehensive review. <i>Solar Energy</i> , 2019 , 180, 622-639	6.8	240
300	Optimization Method for Forecasting Confirmed Cases of COVID-19 in China. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	218
299	An improved Opposition-Based Sine Cosine Algorithm for global optimization. <i>Expert Systems With Applications</i> , 2017 , 90, 484-500	7.8	195
298	Improved grasshopper optimization algorithm using opposition-based learning. <i>Expert Systems With Applications</i> , 2018 , 112, 156-172	7.8	186
297	New machine learning method for image-based diagnosis of COVID-19. <i>PLoS ONE</i> , 2020 , 15, e0235187	3.7	153
296	Improved salp swarm algorithm based on particle swarm optimization for feature selection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 3155-3169	3.7	146
295	Parameter estimation of solar cells diode models by an improved opposition-based whale optimization algorithm. <i>Energy Conversion and Management</i> , 2018 , 171, 1843-1859	10.6	140
294	Cross entropy based thresholding for magnetic resonance brain images using Crow Search Algorithm. <i>Expert Systems With Applications</i> , 2017 , 79, 164-180	7.8	132
293	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2021 , 116158	7.8	120
292	Chaotic opposition-based grey-wolf optimization algorithm based on differential evolution and disruption operator for global optimization. <i>Expert Systems With Applications</i> , 2018 , 108, 1-27	7.8	113
291	A Multilevel Thresholding algorithm using electromagnetism optimization. <i>Neurocomputing</i> , 2014 , 139, 357-381	5.4	113
290	An enhanced productivity prediction model of active solar still using artificial neural network and Harris Hawks optimizer. <i>Applied Thermal Engineering</i> , 2020 , 170, 115020	5.8	106

289	Modified cuckoo search algorithm with rough sets for feature selection. <i>Neural Computing and Applications</i> , 2018 , 29, 925-934	4.8	103
288	COVID-19 image classification using deep features and fractional-order marine predators algorithm. <i>Scientific Reports</i> , 2020 , 10, 15364	4.9	93
287	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
286	Multilevel Thresholding Segmentation Based on Harmony Search Optimization. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-24	1.1	86
285	A review on meta-heuristics methods for estimating parameters of solar cells. <i>Journal of Power Sources</i> , 2019 , 435, 126683	8.9	85
284	ASCA-PSO: Adaptive sine cosine optimization algorithm integrated with particle swarm for pairwise local sequence alignment. <i>Expert Systems With Applications</i> , 2018 , 99, 56-70	7.8	85
283	Dynamic Harris Hawks Optimization with Mutation Mechanism for Satellite Image Segmentation. <i>Remote Sensing</i> , 2019 , 11, 1421	5	84
282	Task scheduling in cloud computing based on hybrid moth search algorithm and differential evolution. <i>Knowledge-Based Systems</i> , 2019 , 169, 39-52	7.3	81
281	BEPO: A novel binary emperor penguin optimizer for automatic feature selection. <i>Knowledge-Based Systems</i> , 2021 , 211, 106560	7.3	77
280	A hyper-heuristic for improving the initial population of whale optimization algorithm. <i>Knowledge-Based Systems</i> , 2019 , 172, 42-63	7.3	74
279	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. <i>Energy</i> , 2020 , 198, 117333	7.9	74
278	An efficient Harris hawks-inspired image segmentation method. <i>Expert Systems With Applications</i> , 2020 , 155, 113428	7.8	74
277	Review on applications of particle swarm optimization in solar energy systems. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 1159-1170	3.3	74
276	Multi-objective whale optimization algorithm for content-based image retrieval. <i>Multimedia Tools and Applications</i> , 2018 , 77, 26135-26172	2.5	73
275	Forecasting gold price fluctuations using improved multilayer perceptron neural network and whale optimization algorithm. <i>Resources Policy</i> , 2019 , 61, 250-260	7.2	72
274	A multi-level thresholding method for breast thermograms analysis using Dragonfly algorithm. <i>Infrared Physics and Technology</i> , 2018 , 93, 346-361	2.7	72
273	A Chaotic Improved Artificial Bee Colony for Parameter Estimation of Photovoltaic Cells. <i>Energies</i> , 2017 , 10, 865	3.1	71
272	Chaotic multi-verse optimizer-based feature selection. <i>Neural Computing and Applications</i> , 2019 , 31, 991-1006	4.8	68

271	Opposition-based moth-flame optimization improved by differential evolution for feature selection. <i>Mathematics and Computers in Simulation</i> , 2020 , 168, 48-75	3.3	62
270	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
269	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
268	Multi-level thresholding-based grey scale image segmentation using multi-objective multi-verse optimizer. <i>Expert Systems With Applications</i> , 2019 , 125, 112-129	7.8	58
267	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
266	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
265	Modeling of friction stir welding process using adaptive neuro-fuzzy inference system integrated with harris hawks optimizer. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 5882-5892	5.5	57
264	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
263	A novel Black Widow Optimization algorithm for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2021 , 167, 114159	7.8	56
262	Noise prediction of axial piston pump based on different valve materials using a modified artificial neural network model. <i>AEJ - Alexandria Engineering Journal</i> , 2019 , 58, 1077-1087	6.1	55
261	Prediction of power consumption and water productivity of seawater greenhouse system using random vector functional link network integrated with artificial ecosystem-based optimization. <i>Chemical Engineering Research and Design</i> , 2020 , 144, 322-329	5.5	54
260	Improved prediction of oscillatory heat transfer coefficient for a thermoacoustic heat exchanger using modified adaptive neuro-fuzzy inference system. <i>International Journal of Refrigeration</i> , 2019 , 102, 47-54	3.8	50
259	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
258	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
257	A Novel Method for Detection of Tuberculosis in Chest Radiographs Using Artificial Ecosystem-Based Optimisation of Deep Neural Network Features. <i>Symmetry</i> , 2020 , 12, 1146	2.7	48
256	A novel approach based on hybrid vortex search algorithm and differential evolution for identifying the optimal parameters of PEM fuel cell. <i>Renewable Energy</i> , 2020 , 146, 1833-1845	8.1	48
255	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
254	An Improved Marine Predators Algorithm With Fuzzy Entropy for Multi-Level Thresholding: Real World Example of COVID-19 CT Image Segmentation. <i>IEEE Access</i> , 2020 , 8, 125306-125330	3.5	45

253	Utilization of Random Vector Functional Link integrated with Marine Predators Algorithm for tensile behavior prediction of dissimilar friction stir welded aluminum alloy joints. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11370-11381	5.5	43
252	Reliable applied objective for identifying simple and detailed photovoltaic models using modern metaheuristics: Comparative study. <i>Energy Conversion and Management</i> , 2020 , 223, 113279	10.6	43
251	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
250	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
249	Optimal parameter identification of triple-junction photovoltaic panel based on enhanced moth search algorithm. <i>Energy</i> , 2019 , 188, 116025	7.9	40
248	A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , 2020 , 147, 106628	6.4	40
247	Gradient-Based Optimizer for Parameter Extraction in Photovoltaic Models. <i>IEEE Access</i> , 2021 , 9, 13403-13416	3.4	39
246	Many-objectives multilevel thresholding image segmentation using Knee Evolutionary Algorithm. <i>Expert Systems With Applications</i> , 2019 , 125, 305-316	7.8	37
245	Context based image segmentation using antlion optimization and sine cosine algorithm. <i>Multimedia Tools and Applications</i> , 2018 , 77, 25761-25797	2.5	37
244	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
243	Prediction of biochar yield using adaptive neuro-fuzzy inference system with particle swarm optimization 2017 ,		36
242	. <i>IEEE Access</i> , 2020 , 8, 79896-79907	3.5	35
241	Block-matching algorithm based on differential evolution for motion estimation. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 488-498	7.2	35
240	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
239	Multi-objective Whale Optimization Algorithm for Multilevel Thresholding Segmentation. <i>Studies in Computational Intelligence</i> , 2018 , 23-39	0.8	34
238	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
237	Hybrid Grasshopper Optimization Algorithm and Differential Evolution for Multilevel Satellite Image Segmentation. <i>Remote Sensing</i> , 2019 , 11, 1134	5	33
236	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

235	A Hybrid Method of Sine Cosine Algorithm and Differential Evolution for Feature Selection. <i>Lecture Notes in Computer Science</i> , 2017 , 145-155	0.9	33
234	Oil Consumption Forecasting Using Optimized Adaptive Neuro-Fuzzy Inference System Based on Sine Cosine Algorithm. <i>IEEE Access</i> , 2018 , 6, 68394-68402	3.5	32
233	Forecasting Copper Prices Using Hybrid Adaptive Neuro-Fuzzy Inference System and Genetic Algorithms. <i>Natural Resources Research</i> , 2019 , 28, 1385-1401	4.9	31
232	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
231	Modified Spider Monkey Optimization based on Nelder-Mead method for global optimization. <i>Expert Systems With Applications</i> , 2018 , 110, 264-289	7.8	31
230	. <i>IEEE Access</i> , 2019 , 7, 164887-164907	3.5	31
229	Nature-Inspired Optimization Algorithms for Text Document Clustering: A Comprehensive Analysis. <i>Algorithms</i> , 2020 , 13, 345	1.8	31
228	Improved multiobjective salp swarm optimization for virtual machine placement in cloud computing. <i>Human-centric Computing and Information Sciences</i> , 2019 , 9,	5.4	30
227	Arabic Sentiment Classification Using Convolutional Neural Network and Differential Evolution Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 2537689	3	30
226	A Study of the Effects of Stemming Strategies on Arabic Document Classification. <i>IEEE Access</i> , 2019 , 7, 32664-32671	3.5	30
225	Entropy-based imagery segmentation for breast histology using the Stochastic Fractal Search. <i>Neurocomputing</i> , 2018 , 321, 201-215	5.4	30
224	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
223	Enhanced Crow Search Algorithm for Feature Selection. <i>Expert Systems With Applications</i> , 2020 , 159, 113572	7.8	28
222	Binary Whale Optimization Algorithm for Dimensionality Reduction. <i>Mathematics</i> , 2020 , 8, 1821	2.3	28
221	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
220	Improving Twin Support Vector Machine Based on Hybrid Swarm Optimizer for Heartbeat Classification. <i>Pattern Recognition and Image Analysis</i> , 2018 , 28, 243-253	1	27
219	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. <i>Electronics (Switzerland)</i> , 2021 , 10, 101	2.6	27
218	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

217	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
216	Social-spider optimization algorithm for improving ANFIS to predict biochar yield 2017 ,		26
215	Hyper-heuristic method for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2020 , 146, 113201	7.8	26
214	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
213	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
212	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
211	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. <i>Cluster Computing</i> , 2021 , 24, 2957	2.1	25
210	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
209	An opposition-based social spider optimization for feature selection. <i>Soft Computing</i> , 2019 , 23, 13547-13567	3.5	24
208	Image segmentation by minimum cross entropy using evolutionary methods. <i>Soft Computing</i> , 2019 , 23, 431-450	3.5	23
207	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
206	An improved social spider optimization algorithm based on rough sets for solving minimum number attribute reduction problem. <i>Neural Computing and Applications</i> , 2018 , 30, 2441-2452	4.8	22
205	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. <i>Sensors</i> , 2019 , 19,	3.8	22
204	Galaxy images classification using hybrid brain storm optimization with moth flame optimization. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018 , 4, 1	1.1	22
203	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
202	Optimized ANFIS Model Using Aquila Optimizer for Oil Production Forecasting. <i>Processes</i> , 2021 , 9, 1194	2.9	22
201	Improving segmentation velocity using an evolutionary method. <i>Expert Systems With Applications</i> , 2015 , 42, 5874-5886	7.8	21
200	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

199	Sine-Cosine Algorithm to Enhance Simulated Annealing for Unrelated Parallel Machine Scheduling with Setup Times. <i>Mathematics</i> , 2019 , 7, 1120	2.3	20
198	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
197	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
196	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
195	Masi Entropy for Satellite Color Image Segmentation Using Tournament-Based Levy Multiverse Optimization Algorithm. <i>Remote Sensing</i> , 2019 , 11, 942	5	19
194	Multilevel thresholding by fuzzy type II sets using evolutionary algorithms. <i>Swarm and Evolutionary Computation</i> , 2019 , 51, 100591	9.8	19
193	Improved Slime Mould Algorithm based on Firefly Algorithm for feature selection: A case study on QSAR model. <i>Engineering With Computers</i> ,1	4.5	19
192	Advanced Metaheuristic Techniques for Mechanical Design Problems: Review. <i>Archives of Computational Methods in Engineering</i> ,1	7.8	19
191	A Grunwald-Letnikov based Manta ray foraging optimizer for global optimization and image segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 98, 104105	7.2	19
190	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
189	A Modified Adaptive Neuro-Fuzzy Inference System Using Multi-Verse Optimizer Algorithm for Oil Consumption Forecasting. <i>Electronics (Switzerland)</i> , 2019 , 8, 1071	2.6	18
188	Migration-Based Moth-Flame Optimization Algorithm. <i>Processes</i> , 2021 , 9, 2276	2.9	18
187	Boosting COVID-19 Image Classification Using MobileNetV3 and Aquila Optimizer Algorithm. <i>Entropy</i> , 2021 , 23,	2.8	18
186	Hybrid Swarms Optimization Based Image Segmentation 2016 , 1-21		17
185	Image segmentation via multilevel thresholding using hybrid optimization algorithms. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	17
184	Modeling ultrasonic welding of polymers using an optimized artificial intelligence model using a gradient-based optimizer. <i>Welding in the World, Le Soudage Dans Le Monde</i> ,1	1.9	17
183	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
182	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

181	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
180	A Multilevel Image Thresholding Based on Hybrid Salp Swarm Algorithm and Fuzzy Entropy. <i>IEEE Access</i> , 2019 , 7, 181405-181422	3.5	17
179	Lightning search algorithm: a comprehensive survey. <i>Applied Intelligence</i> , 2020 , 51, 1-24	4.9	17
178	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
177	2019 ,		16
176	Ludo game-based metaheuristics for global and engineering optimization. <i>Applied Soft Computing Journal</i> , 2019 , 84, 105723	7.5	15
175	Multi-Level Image Thresholding Based on Modified Spherical Search Optimizer and Fuzzy Entropy. <i>Entropy</i> , 2020 , 22,	2.8	15
174	Optimal Resource and Power Allocation With Relay Selection for RF/RE Energy Harvesting Relay-Aided D2D Communication. <i>IEEE Access</i> , 2019 , 7, 89670-89686	3.5	15
173	Automatic Detection of Galaxy Type From Datasets of Galaxies Image Based on Image Retrieval Approach. <i>Scientific Reports</i> , 2017 , 7, 4463	4.9	15
172	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. <i>Electronics (Switzerland)</i> , 2021 , 10, 1332	2.6	15
171	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
170	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
169	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
168	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. <i>Neural Computing and Applications</i> , 2021 , 33, 14079	4.8	14
167	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. <i>Energy Conversion and Management</i> , 2021 , 236, 113971	10.6	14
166	Galaxies image classification using artificial bee colony based on orthogonal Gegenbauer moments. <i>Soft Computing</i> , 2019 , 23, 9573-9583	3.5	14
165	An improved runner-root algorithm for solving feature selection problems based on rough sets and neighborhood rough sets. <i>Applied Soft Computing Journal</i> , 2020 , 97, 105517	7.5	14
164	Improved Adaptive Neuro-Fuzzy Inference System Using Gray Wolf Optimization: A Case Study in Predicting Biochar Yield. <i>Journal of Intelligent Systems</i> , 2018 , 29, 924-940	1.5	14

163	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. <i>Multimedia Tools and Applications</i> , 2021 , 80, 14979-15016	2.5	14
162	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2021 , 10, 2975	2.6	13
161	Feature Selection Based on Improved Runner-Root Algorithm Using Chaotic Singer Map and Opposition-Based Learning. <i>Lecture Notes in Computer Science</i> , 2017 , 156-166	0.9	13
160	Modified Harris Hawks Optimizer for Solving Machine Scheduling Problems. <i>Symmetry</i> , 2020 , 12, 1460	2.7	13
159	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. <i>Entropy</i> , 2021 , 23,	2.8	13
158	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
157	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
156	Unassisted thresholding based on multi-objective evolutionary algorithms. <i>Knowledge-Based Systems</i> , 2018 , 159, 221-232	7.3	12
155	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
154	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
153	A new multi-objective optimization algorithm combined with opposition-based learning. <i>Expert Systems With Applications</i> , 2021 , 165, 113844	7.8	12
152	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
151	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
150	Swarm selection method for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2019 , 138, 112818	7.8	11
149	Efficient Schemes for Payout Latency Reduction in P2P-VoD Systems. <i>Studies in Computational Intelligence</i> , 2018 , 477-495	0.8	11
148	Color face recognition using novel fractional-order multi-channel exponent moments. <i>Neural Computing and Applications</i> , 2021 , 33, 5419-5435	4.8	11
147	Opposition-based moth swarm algorithm. <i>Expert Systems With Applications</i> , 2021 , 184, 115481	7.8	11
146	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

145	Source localization using TDOA and FDOA measurements based on modified cuckoo search algorithm. <i>Wireless Networks</i> , 2017 , 23, 487-495	2.5	10
144	Nonnegative matrix factorization based on projected hybrid conjugate gradient algorithm. <i>Signal, Image and Video Processing</i> , 2015 , 9, 1825-1831	1.6	10
143	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11735-11752	10.7	10
142	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
141	Quantitative Structure-Activity Relationship Model for HCVNS5B inhibitors based on an Antlion Optimizer-Adaptive Neuro-Fuzzy Inference System. <i>Scientific Reports</i> , 2018 , 8, 1506	4.9	10
140	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
139	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
138	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
137	Modified Artificial Ecosystem-Based Optimization for Multilevel Thresholding Image Segmentation. <i>Mathematics</i> , 2021 , 9, 2363	2.3	10
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- 1 Discrete Generalized Inverted Exponential Distribution: Case Study Color Image Segmentation. *Mathematical Problems in Engineering*, **2022**, 2022, 1-17 1.1