

Hui-Ling Chen

List of Publications by Citations

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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.

261 papers	13,173 citations	60 h-index	109 g-index
289 ext. papers	19,433 ext. citations	4.9 avg, IF	7.78 L-index

#	Paper	IF	Citations
261	Harris hawks optimization: Algorithm and applications. <i>Future Generation Computer Systems</i> , 2019 , 97, 849-872	7.5	1523
260	Slime mould algorithm: A new method for stochastic optimization. <i>Future Generation Computer Systems</i> , 2020 , 111, 300-323	7.5	705
259	Evolving support vector machines using fruit fly optimization for medical data classification. <i>Knowledge-Based Systems</i> , 2016 , 96, 61-75	7.3	382
258	Toward an optimal kernel extreme learning machine using a chaotic moth-flame optimization strategy with applications in medical diagnoses. <i>Neurocomputing</i> , 2017 , 267, 69-84	5.4	318
257	Enhanced Moth-flame optimizer with mutation strategy for global optimization. <i>Information Sciences</i> , 2019 , 492, 181-203	7.7	279
256	Chaotic multi-swarm whale optimizer boosted support vector machine for medical diagnosis. <i>Applied Soft Computing Journal</i> , 2020 , 88, 105946	7.5	266
255	A support vector machine classifier with rough set-based feature selection for breast cancer diagnosis. <i>Expert Systems With Applications</i> , 2011 , 38, 9014-9022	7.8	249
254	Chaos enhanced grey wolf optimization wrapped ELM for diagnosis of paraquat-poisoned patients. <i>Computational Biology and Chemistry</i> , 2019 , 78, 481-490	3.6	238
253	Feature selection based on improved ant colony optimization for online detection of foreign fiber in cotton. <i>Applied Soft Computing Journal</i> , 2014 , 24, 585-596	7.5	224
252	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. <i>Expert Systems With Applications</i> , 2021 , 177, 114864	7.8	203
251	An improved particle swarm optimization for feature selection. <i>Journal of Bionic Engineering</i> , 2011 , 8, 191-200	2.7	196
250	An efficient diagnosis system for detection of Parkinson's disease using fuzzy k-nearest neighbor approach. <i>Expert Systems With Applications</i> , 2013 , 40, 263-271	7.8	179
249	Multi-population differential evolution-assisted Harris hawks optimization: Framework and case studies. <i>Future Generation Computer Systems</i> , 2020 , 111, 175-198	7.5	177
248	Adaptive computational chemotaxis based on field in bacterial foraging optimization. <i>Soft Computing</i> , 2014 , 18, 797-807	3.5	171
247	An improved grasshopper optimization algorithm with application to financial stress prediction. <i>Applied Mathematical Modelling</i> , 2018 , 64, 654-668	4.5	165
246	An efficient hybrid kernel extreme learning machine approach for early diagnosis of Parkinson's disease. <i>Neurocomputing</i> , 2016 , 184, 131-144	5.4	164
245	A balanced whale optimization algorithm for constrained engineering design problems. <i>Applied Mathematical Modelling</i> , 2019 , 71, 45-59	4.5	156

244	An enhanced Bacterial Foraging Optimization and its application for training kernel extreme learning machine. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105884	7.5	155
243	An opposition-based sine cosine approach with local search for parameter estimation of photovoltaic models. <i>Energy Conversion and Management</i> , 2019 , 195, 927-942	10.6	152
242	An efficient chaotic mutative moth-flame-inspired optimizer for global optimization tasks. <i>Expert Systems With Applications</i> , 2019 , 129, 135-155	7.8	142
241	Parameters identification of photovoltaic cells and modules using diversification-enriched Harris hawks optimization with chaotic drifts. <i>Journal of Cleaner Production</i> , 2020 , 244, 118778	10.3	142
240	Developing a new intelligent system for the diagnosis of tuberculous pleural effusion. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 153, 211-225	6.9	137
239	Ultrasound-based differentiation of malignant and benign thyroid Nodules: An extreme learning machine approach. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 147, 37-49	6.9	137
238	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. <i>Expert Systems With Applications</i> , 2021 , 181, 115079	7.8	135
237	Orthogonal learning covariance matrix for defects of grey wolf optimizer: Insights, balance, diversity, and feature selection. <i>Knowledge-Based Systems</i> , 2021 , 213, 106684	7.3	133
236	An Enhanced Grey Wolf Optimization Based Feature Selection Wrapped Kernel Extreme Learning Machine for Medical Diagnosis. <i>Computational and Mathematical Methods in Medicine</i> , 2017 , 2017, 9512741	2.8	125
235	A novel bankruptcy prediction model based on an adaptive fuzzy k-nearest neighbor method. <i>Knowledge-Based Systems</i> , 2011 , 24, 1348-1359	7.3	125
234	Face Recognition and Micro-expression Recognition Based on Discriminant Tensor Subspace Analysis Plus Extreme Learning Machine. <i>Neural Processing Letters</i> , 2014 , 39, 25-43	2.4	124
233	Gaussian mutational chaotic fruit fly-built optimization and feature selection. <i>Expert Systems With Applications</i> , 2020 , 141, 112976	7.8	123
232	Grey wolf optimization evolving kernel extreme learning machine: Application to bankruptcy prediction. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 63, 54-68	7.2	121
231	Evolutionary biogeography-based whale optimization methods with communication structure: Towards measuring the balance. <i>Knowledge-Based Systems</i> , 2021 , 212, 106642	7.3	113
230	Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. <i>Knowledge-Based Systems</i> , 2021 , 216, 106510	7.3	111
229	Boosted mutation-based Harris hawks optimizer for parameters identification of single-diode solar cell models. <i>Energy Conversion and Management</i> , 2020 , 209, 112660	10.6	106
228	An efficient machine learning approach for diagnosis of paraquat-poisoned patients. <i>Computers in Biology and Medicine</i> , 2015 , 59, 116-124	7	104
227	Towards augmented kernel extreme learning models for bankruptcy prediction: Algorithmic behavior and comprehensive analysis. <i>Neurocomputing</i> , 2021 , 430, 185-212	5.4	102

226	Multi-strategy boosted mutative whale-inspired optimization approaches. <i>Applied Mathematical Modelling</i> , 2019 , 73, 109-123	4.5	98
225	Boosted binary Harris hawks optimizer and feature selection. <i>Engineering With Computers</i> , 2020 , 37, 3744-3754	4.5	97
224	Orthogonally adapted Harris hawks optimization for parameter estimation of photovoltaic models. <i>Energy</i> , 2020 , 203, 117804	7.9	97
223	Double adaptive weights for stabilization of moth flame optimizer: Balance analysis, engineering cases, and medical diagnosis. <i>Knowledge-Based Systems</i> , 2021 , 214, 106728	7.3	94
222	Daily global solar radiation prediction from air temperatures using kernel extreme learning machine: A case study for Iran. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 134, 109-117	2	92
221	Evolving an optimal kernel extreme learning machine by using an enhanced grey wolf optimization strategy. <i>Expert Systems With Applications</i> , 2019 , 138, 112814	7.8	90
220	Orthogonal Nelder-Mead moth flame method for parameters identification of photovoltaic modules. <i>Energy Conversion and Management</i> , 2020 , 211, 112764	10.6	89
219	An enhanced fast non-dominated solution sorting genetic algorithm for multi-objective problems. <i>Information Sciences</i> , 2022 , 585, 441-453	7.7	77
218	The Colony Predation Algorithm. <i>Journal of Bionic Engineering</i> , 2021 , 18, 674-710	2.7	77
217	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. <i>Energy</i> , 2020 , 198, 117333	7.9	74
216	A new hybrid method based on local fisher discriminant analysis and support vector machines for hepatitis disease diagnosis. <i>Expert Systems With Applications</i> , 2011 , 38, 11796-11803	7.8	72
215	Effective detection of Parkinson's disease using an adaptive fuzzy k-nearest neighbor approach. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 364-373	4.9	67
214	SGOA: annealing-behaved grasshopper optimizer for global tasks. <i>Engineering With Computers</i> , 2020 , 37, 3744-3754	4.5	67
213	Multi-objective optimization and multi-criteria decision-making methods for optimal design of standalone photovoltaic system: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110202	16.2	66
212	Efficient boosted grey wolf optimizers for global search and kernel extreme learning machine training. <i>Applied Soft Computing Journal</i> , 2019 , 81, 105521	7.5	65
211	Predicting Entrepreneurial Intention of Students: An Extreme Learning Machine With Gaussian Barebone Harris Hawks Optimizer. <i>IEEE Access</i> , 2020 , 8, 76841-76855	3.5	64
210	Chaos-enhanced synchronized bat optimizer. <i>Applied Mathematical Modelling</i> , 2020 , 77, 1201-1215	4.5	64
209	Efficient multi-population outpost fruit fly-driven optimizers: Framework and advances in support vector machines. <i>Expert Systems With Applications</i> , 2020 , 142, 112999	7.8	64

208	An efficient double adaptive random spare reinforced whale optimization algorithm. <i>Expert Systems With Applications</i> , 2020 , 154, 113018	7.8	64
207	Predicting Intentions of Students for Master Programs Using a Chaos-Induced Sine Cosine-Based Fuzzy K-Nearest Neighbor Classifier. <i>IEEE Access</i> , 2019 , 7, 67235-67248	3.5	63
206	Chaos-Induced and Mutation-Driven Schemes Boosting Salp Chains-Inspired Optimizers. <i>IEEE Access</i> , 2019 , 7, 31243-31261	3.5	62
205	A multi-strategy enhanced sine cosine algorithm for global optimization and constrained practical engineering problems. <i>Applied Mathematics and Computation</i> , 2020 , 369, 124872	2.7	62
204	A two-stage feature selection method with its application. <i>Computers and Electrical Engineering</i> , 2015 , 47, 114-125	4.3	61
203	A computer aided diagnosis system for thyroid disease using extreme learning machine. <i>Journal of Medical Systems</i> , 2012 , 36, 3327-37	5.1	61
202	Support vector machine based diagnostic system for breast cancer using swarm intelligence. <i>Journal of Medical Systems</i> , 2012 , 36, 2505-19	5.1	61
201	A fast approach for detection of erythemato-squamous diseases based on extreme learning machine with maximum relevance minimum redundancy feature selection. <i>International Journal of Systems Science</i> , 2015 , 46, 919-931	2.3	59
200	Towards an optimal support vector machine classifier using a parallel particle swarm optimization strategy. <i>Applied Mathematics and Computation</i> , 2014 , 239, 180-197	2.7	59
199	A three-stage expert system based on support vector machines for thyroid disease diagnosis. <i>Journal of Medical Systems</i> , 2012 , 36, 1953-63	5.1	58
198	Feature selection using dynamic weights for classification. <i>Knowledge-Based Systems</i> , 2013 , 37, 541-549	7.3	58
197	Resource allocation and trust computing for blockchain-enabled edge computing system. <i>Computers and Security</i> , 2021 , 105, 102249	4.9	58
196	Feature evaluation and selection with cooperative game theory. <i>Pattern Recognition</i> , 2012 , 45, 2992-3002	7	57
195	Advanced orthogonal learning-driven multi-swarm sine cosine optimization: Framework and case studies. <i>Expert Systems With Applications</i> , 2020 , 144, 113113	7.8	57
194	An Intelligent Parkinson's Disease Diagnostic System Based on a Chaotic Bacterial Foraging Optimization Enhanced Fuzzy KNN Approach. <i>Computational and Mathematical Methods in Medicine</i> , 2018 , 2018, 2396952	2.8	56
193	An Effective Computational Model for Bankruptcy Prediction Using Kernel Extreme Learning Machine Approach. <i>Computational Economics</i> , 2017 , 49, 325-341	1.4	55
192	Horizontal and vertical crossover of Harris hawk optimizer with Nelder-Mead simplex for parameter estimation of photovoltaic models. <i>Energy Conversion and Management</i> , 2020 , 223, 113211	10.6	54
191	A new fruit fly optimization algorithm enhanced support vector machine for diagnosis of breast cancer based on high-level features. <i>BMC Bioinformatics</i> , 2019 , 20, 290	3.6	53

190	A consensus successive projections algorithm--multiple linear regression method for analyzing near infrared spectra. <i>Analytica Chimica Acta</i> , 2015 , 858, 16-23	6.6	53
189	Towards Context-aware Social Recommendation via Individual Trust. <i>Knowledge-Based Systems</i> , 2017 , 127, 58-66	7.3	52
188	Evaluation of Sino Foreign Cooperative Education Project Using Orthogonal Sine Cosine Optimized Kernel Extreme Learning Machine. <i>IEEE Access</i> , 2020 , 8, 61107-61123	3.5	52
187	Design of an enhanced fuzzy k-nearest neighbor classifier based computer aided diagnostic system for thyroid disease. <i>Journal of Medical Systems</i> , 2012 , 36, 3243-54	5.1	52
186	Medical image classification using spatial adjacent histogram based on adaptive local binary patterns. <i>Computers in Biology and Medicine</i> , 2016 , 72, 185-200	7	51
185	Dynamic Gaussian bare-bones fruit fly optimizers with abandonment mechanism: method and analysis. <i>Engineering With Computers</i> , 2020 , 1	4.5	50
184	An enhanced associative learning-based exploratory whale optimizer for global optimization. <i>Neural Computing and Applications</i> , 2020 , 32, 5185-5211	4.8	50
183	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. <i>Knowledge-Based Systems</i> , 2021 , 215, 106425	7.3	49
182	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
181	Orthogonally-designed adapted grasshopper optimization: A comprehensive analysis. <i>Expert Systems With Applications</i> , 2020 , 150, 113282	7.8	44
180	An Ant Colony Optimization Based Dimension Reduction Method for High-Dimensional Datasets. <i>Journal of Bionic Engineering</i> , 2013 , 10, 231-241	2.7	43
179	A New Hybrid Intelligent Framework for Predicting Parkinson's Disease. <i>IEEE Access</i> , 2017 , 5, 17188-17200	3.5	42
178	MOSMA: Multi-Objective Slime Mould Algorithm Based on Elitist Non-Dominated Sorting. <i>IEEE Access</i> , 2021 , 9, 3229-3248	3.5	42
177	Predicting Green Consumption Behaviors of Students Using Efficient Firefly Grey Wolf-Assisted K-Nearest Neighbor Classifiers. <i>IEEE Access</i> , 2020 , 8, 35546-35562	3.5	41
176	Using cooperative game theory to optimize the feature selection problem. <i>Neurocomputing</i> , 2012 , 97, 86-93	5.4	41
175	Crow Search Algorithm: Theory, Recent Advances, and Applications. <i>IEEE Access</i> , 2020 , 8, 173548-173565	3.5	41
174	Chaos Enhanced Bacterial Foraging Optimization for Global Optimization. <i>IEEE Access</i> , 2018 , 6, 64905-64919	3.5	41
173	Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. <i>Expert Systems With Applications</i> , 2020 , 157, 113486	7.8	39

172	Harmonized salp chain-built optimization. <i>Engineering With Computers</i> , 2021 , 37, 1049-1079	4.5	39
171	A Novel Deep-Learning Model for Automatic Detection and Classification of Breast Cancer Using the Transfer-Learning Technique. <i>IEEE Access</i> , 2021 , 9, 71194-71209	3.5	39
170	A New Effective Machine Learning Framework for Sepsis Diagnosis. <i>IEEE Access</i> , 2018 , 6, 48300-48310	3.5	38
169	Exponential locality preserving projections for small sample size problem. <i>Neurocomputing</i> , 2011 , 74, 3654-3662	5.4	37
168	A new machine-learning method to prognosticate paraquat poisoned patients by combining coagulation, liver, and kidney indices. <i>PLoS ONE</i> , 2017 , 12, e0186427	3.7	37
167	Research on a Covert Communication Model Realized by Using Smart Contracts in Blockchain Environment. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	37
166	INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , 2022 , 195, 116516	7.8	36
165	Multi-population following behavior-driven fruit fly optimization: A Markov chain convergence proof and comprehensive analysis. <i>Knowledge-Based Systems</i> , 2020 , 210, 106437	7.3	36
164	Predicting Cervical Hyperextension Injury: A Covariance Guided Sine Cosine Support Vector Machine. <i>IEEE Access</i> , 2020 , 8, 46895-46908	3.5	35
163	Pharmacokinetics and tissue distribution model of cabozantinib in rat determined by UPLC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 983-984, 125-31	3.2	34
162	An efficient diagnosis system for Parkinson's disease using kernel-based extreme learning machine with subtractive clustering features weighting approach. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 985789	2.8	34
161	Chaotic oppositional sine cosine method for solving global optimization problems. <i>Engineering With Computers</i> , 2020 , 1	4.5	34
160	Ensemble mutation-driven salp swarm algorithm with restart mechanism: Framework and fundamental analysis. <i>Expert Systems With Applications</i> , 2021 , 165, 113897	7.8	34
159	Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104427	7	34
158	A Covert Communication Method Using Special Bitcoin Addresses Generated by Vanitygen. <i>Computers, Materials and Continua</i> , 2020 , 65, 597-616	3.9	32
157	A multi-strategy enhanced salp swarm algorithm for global optimization. <i>Engineering With Computers</i> , 2020 , 1	4.5	31
156	A quantum-behaved simulated annealing algorithm-based moth-flame optimization method. <i>Applied Mathematical Modelling</i> , 2020 , 87, 1-19	4.5	31
155	Levy-based antlion-inspired optimizers with orthogonal learning scheme. <i>Engineering With Computers</i> , 2020 , 1	4.5	30

- 154 Advanced orthogonal moth flame optimization with Broyden Fletcher Goldfarb Shanno algorithm: Framework and real-world problems. *Expert Systems With Applications*, **2020**, 159, 113617 7.8 25
- 153 An Improved Grey Wolf Optimization Strategy Enhanced SVM and Its Application in Predicting the Second Major. *Mathematical Problems in Engineering*, **2017**, 2017, 1-12 1.1 25
- 152 Selection of interdependent genes via dynamic relevance analysis for cancer diagnosis. *Journal of Biomedical Informatics*, **2013**, 46, 252-8 10.2 25
- 151 Evaluation of constraint in photovoltaic models by exploiting an enhanced ant lion optimizer. *Solar Energy*, **2020**, 211, 503-521 6.8 25
- 150 Parameters extraction of three diode photovoltaic models using boosted LSHADE algorithm and Newton Raphson method. *Energy*, **2021**, 224, 120136 7.9 25
- 149 Boosting slime mould algorithm for parameter identification of photovoltaic models. *Energy*, **2021**, 234, 121164 7.9 24
- 148 Survival exploration strategies for Harris Hawks Optimizer. *Expert Systems With Applications*, **2021**, 168, 114243 7.8 23
- 147 An Effective Machine Learning Approach for Prognosis of Paraquat Poisoning Patients Using Blood Routine Indexes. *Basic and Clinical Pharmacology and Toxicology*, **2017**, 120, 86-96 3.1 22
- 146 Using Blood Indexes to Predict Overweight Statuses: An Extreme Learning Machine-Based Approach. *PLoS ONE*, **2015**, 10, e0143003 3.7 22
- 145 Identification of heavy metal-contaminated Tegillarca granosa using infrared spectroscopy. *Analytical Methods*, **2015**, 7, 2172-2181 3.2 22
- 144 Secure and efficient data storage and sharing scheme for blockchain-based mobile-edge computing. *Transactions on Emerging Telecommunications Technologies*, **2021**, 32, e4315 1.9 22
- 143 Random reselection particle swarm optimization for optimal design of solar photovoltaic modules. *Energy*, **2022**, 239, 121865 7.9 22
- 142 Diagnosing Coronavirus Disease 2019 (COVID-19): Efficient Harris Hawks-Inspired Fuzzy K-Nearest Neighbor Prediction Methods. *IEEE Access*, **2021**, 9, 17787-17802 3.5 21
- 141 Boosting quantum rotation gate embedded slime mould algorithm. *Expert Systems With Applications*, **2021**, 181, 115082 7.8 20
- 140 Predict the Entrepreneurial Intention of Fresh Graduate Students Based on an Adaptive Support Vector Machine Framework. *Mathematical Problems in Engineering*, **2019**, 2019, 1-16 1.1 19
- 139 Heterotopic Pregnancy After In Vitro Fertilization and Embryo Transfer After Bilateral Total Salpingectomy/Tubal Ligation: Case Report and Literature Review. *Journal of Minimally Invasive Gynecology*, **2016**, 23, 338-45 2.2 19
- 138 Feasibility of infrared and Raman spectroscopies for identification of juvenile black seabream (*Sparus macrocephalus*) intoxicated by heavy metals. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 12429-35 5.7 19
- 137 Random learning gradient based optimization for efficient design of photovoltaic models. *Energy Conversion and Management*, **2021**, 230, 113751 10.6 19

136	Gradient-based optimization with ranking mechanisms for parameter identification of photovoltaic systems. <i>Energy Reports</i> , 2021 , 7, 3979-3997	4.6	19
135	Rationalized Sine Cosine Optimization With Efficient Searching Patterns. <i>IEEE Access</i> , 2020 , 8, 61471-61499	3.9	18
134	Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. <i>Expert Systems With Applications</i> , 2021 , 171, 114529	7.8	18
133	An Efficient and Effective Automatic Recognition System for Online Recognition of Foreign Fibers in Cotton. <i>IEEE Access</i> , 2016 , 4, 8465-8475	3.5	18
132	Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. <i>Computers in Biology and Medicine</i> , 2021 , 138, 104910	7	18
131	Evolutionary shuffled frog leaping with memory pool for parameter optimization. <i>Energy Reports</i> , 2021 , 7, 584-606	4.6	18
130	A New Kernel Extreme Learning Machine Framework for Somatization Disorder Diagnosis. <i>IEEE Access</i> , 2019 , 7, 45512-45525	3.5	17
129	Evolutionary warning system for COVID-19 severity: Colony predation algorithm enhanced extreme learning machine. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104698	7	17
128	Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104609	7	17
127	An intelligent prognostic system for analyzing patients with paraquat poisoning using arterial blood gas indexes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2017 , 84, 78-85	1.7	16
126	Multiple parameter control for ant colony optimization applied to feature selection problem. <i>Neural Computing and Applications</i> , 2015 , 26, 1693-1708	4.8	16
125	Quantum-like mutation-induced dragonfly-inspired optimization approach. <i>Mathematics and Computers in Simulation</i> , 2020 , 178, 259-289	3.3	16
124	Automatic Analysis of Microaneurysms Turnover to Diagnose the Progression of Diabetic Retinopathy. <i>IEEE Access</i> , 2018 , 6, 9632-9642	3.5	16
123	A bioinformatic variant fruit fly optimizer for tackling optimization problems. <i>Knowledge-Based Systems</i> , 2021 , 213, 106704	7.3	15
122	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. <i>Energy Reports</i> , 2021 , 7, 228-246	4.6	15
121	A Meta-Heuristic-Based Approach for QoS-Aware Service Composition. <i>IEEE Access</i> , 2020 , 8, 69579-69592	3.5	14
120	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. <i>Knowledge-Based Systems</i> , 2021 , 237, 107761	7.3	14
119	Exploratory differential ant lion-based optimization. <i>Expert Systems With Applications</i> , 2020 , 159, 113548	7.8	14

118	Improved Salp Swarm Algorithm with mutation schemes for solving global optimization and engineering problems. <i>Engineering With Computers</i> ,1	4.5	14
117	Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. <i>Energy Conversion and Management</i> , 2021 , 244, 114484	10.6	14
116	An Adaptive Chaotic Sine Cosine Algorithm for Constrained and Unconstrained Optimization. <i>Complexity</i> , 2020 , 2020, 1-36	1.6	13
115	Boosted hunting-based fruit fly optimization and advances in real-world problems. <i>Expert Systems With Applications</i> , 2020 , 159, 113502	7.8	13
114	A Novel Framework for Gene Selection. <i>International Journal of Advancements in Computing Technology</i> , 2011 , 3, 184-191		13
113	Multi-core sine cosine optimization: Methods and inclusive analysis. <i>Expert Systems With Applications</i> , 2021 , 164, 113974	7.8	13
112	Video Deblurring via Spatiotemporal Pyramid Network and Adversarial Gradient Prior. <i>Computer Vision and Image Understanding</i> , 2021 , 203, 103135	4.3	13
111	Dealing with multi-modality using synthesis of Moth-flame optimizer with sine cosine mechanisms. <i>Mathematics and Computers in Simulation</i> , 2021 , 188, 291-318	3.3	13
110	An Improved Bacterial-Foraging Optimization-Based Machine Learning Framework for Predicting the Severity of Somatization Disorder. <i>Algorithms</i> , 2018 , 11, 17	1.8	12
109	Influence of mRNA features on siRNA interference efficacy. <i>Journal of Bioinformatics and Computational Biology</i> , 2013 , 11, 1341004	1	12
108	Modified Whale Optimization Algorithm for Solar Cell and PV Module Parameter Identification. <i>Complexity</i> , 2021 , 2021, 1-23	1.6	12
107	Laplacian Nelder-Mead spherical evolution for parameter estimation of photovoltaic models. <i>Energy Conversion and Management</i> , 2021 , 243, 114223	10.6	12
106	Metaphor-free dynamic spherical evolution for parameter estimation of photovoltaic modules. <i>Energy Reports</i> , 2021 , 7, 5175-5202	4.6	12
105	Performance optimization of support vector machine with oppositional grasshopper optimization for acute appendicitis diagnosis.. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105206	7	11
104	Gaussian Barebone Salp Swarm Algorithm with Stochastic Fractal Search for medical image segmentation: A COVID-19 case study. <i>Computers in Biology and Medicine</i> , 2021 , 139, 104941	7	11
103	Orthogonal learning harmonizing mutation-based fruit fly-inspired optimizers. <i>Applied Mathematical Modelling</i> , 2020 , 86, 368-383	4.5	11
102	Adaptive levy-assisted salp swarm algorithm: Analysis and optimization case studies. <i>Mathematics and Computers in Simulation</i> , 2021 , 181, 380-409	3.3	11
101	Chaos-assisted multi-population salp swarm algorithms: Framework and case studies. <i>Expert Systems With Applications</i> , 2021 , 168, 114369	7.8	11

100	Statistical inference for community detection in signed networks. <i>Physical Review E</i> , 2017 , 95, 042313	2.4	10
99	Performance optimization of salp swarm algorithm for multi-threshold image segmentation: Comprehensive study of breast cancer microscopy. <i>Computers in Biology and Medicine</i> , 2021 , 139, 105015	7	10
98	Horizontal and vertical search artificial bee colony for image segmentation of COVID-19 X-ray images.. <i>Computers in Biology and Medicine</i> , 2022 , 142, 105181	7	10
97	Evolving fuzzy k-nearest neighbors using an enhanced sine cosine algorithm: Case study of lupus nephritis. <i>Computers in Biology and Medicine</i> , 2021 , 135, 104582	7	10
96	Generative Adversarial Networks in Medical Image augmentation: A review.. <i>Computers in Biology and Medicine</i> , 2022 , 144, 105382	7	10
95	. <i>IEEE Access</i> , 2019 , 7, 138461-138472	3.5	9
94	An Effective Machine Learning Approach for Identifying the Glyphosate Poisoning Status in Rats Using Blood Routine Test. <i>IEEE Access</i> , 2018 , 6, 15653-15662	3.5	9
93	Boosting whale optimization with evolution strategy and Gaussian random walks: an image segmentation method. <i>Engineering With Computers</i> ,1	4.5	9
92	Detection of COVID-19 severity using blood gas analysis parameters and Harris hawks optimized extreme learning machine.. <i>Computers in Biology and Medicine</i> , 2021 , 142, 105166	7	9
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