Ali Asghar Heidari

List of Publications by Year in Descending Order

168 papers	9,260 citations	49 h-index	93 g-index
180 ext. papers	14,500 ext. citations	5.8 avg, IF	7.61 L-index

#	Paper	IF	Citations
168	Individual Disturbance and Attraction Repulsion Strategy Enhanced Seagull Optimization for Engineering Design. *Mathematics*, **2022**, 10, 276	2.3	1
167	Apple leaf disease recognition method with improved residual network. *Multimedia Tools and Applications*, **2022**, 81, 7759	2.5	6
166	Image segmentation of Leaf Spot Diseases on Maize using multi-stage Cauchy-enabled grey wolf algorithm. *Engineering Applications of Artificial Intelligence*, **2022**, 109, 104653	7.2	8
165	Adaptive Harris hawks optimization with persistent trigonometric differences for photovoltaic model parameter extraction. *Engineering Applications of Artificial Intelligence*, **2022**, 109, 104608	7.2	7
164	Multi-threshold image segmentation using a multi-strategy shuffled frog leaping algorithm. *Expert Systems With Applications*, **2022**, 194, 116511	7.8	5
163	INFO: An efficient optimization algorithm based on weighted mean of vectors. *Expert Systems With Applications*, **2022**, 195, 116516	7.8	36
162	Performance optimization of photovoltaic systems: Reassessment of political optimization with a quantum Nelder-mead functionality. *Solar Energy*, **2022**, 234, 39-63	6.8	0
161	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems.. *Engineering With Computers*, **2022**, 1-35	4.5	4
160	Performance optimization of support vector machine with oppositional grasshopper optimization for acute appendicitis diagnosis.. *Computers in Biology and Medicine*, **2022**, 143, 105206	7	11
159	Solar photovoltaic model parameter estimation based on orthogonally-adapted gradient-based optimization. *Optik*, **2022**, 252, 168513	2.5	3
158	Horizontal and vertical search artificial bee colony for image segmentation of COVID-19 X-ray images.. *Computers in Biology and Medicine*, **2022**, 142, 105181	7	10
157	Random reselection particle swarm optimization for optimal design of solar photovoltaic modules. *Energy*, **2022**, 239, 121865	7.9	22
156	Estimating daily global solar radiation in hot semi-arid climate using an efficient hybrid intelligent system. *European Physical Journal Plus*, **2022**, 137, 1	3.1	1
155	Medical image augmentation for lesion detection using a texture-constrained multichannel progressive GAN.. *Computers in Biology and Medicine*, **2022**, 145, 105444	7	7
154	Gaussian kernel probability-driven slime mould algorithm with new movement mechanism for multi-level image segmentation. *Measurement: Journal of the International Measurement Confederation*, **2022**, 192, 110884	4.6	1
153	Optimized deep residual network system for diagnosing tomato pests. *Computers and Electronics in Agriculture*, **2022**, 195, 106805	6.5	2
152	Chaotic simulated annealing multi-verse optimization enhanced kernel extreme learning machine for medical diagnosis.. *Computers in Biology and Medicine*, **2022**, 144, 105356	7	0

151	Generative Adversarial Networks in Medical Image augmentation: A review.. *Computers in Biology and Medicine*, **2022**, 144, 105382	7	10
150	Hierarchical Harris hawks optimization for epileptic seizure classification.. *Computers in Biology and Medicine*, **2022**, 145, 105397	7	3
149	Lupus nephritis diagnosis using enhanced moth flame algorithm with support vector machines.. *Computers in Biology and Medicine*, **2022**, 145, 105435	7	2
148	An evolutionary machine learning for pulmonary hypertension animal model from arterial blood gas analysis. *Computers in Biology and Medicine*, **2022**, 105529	7	1
147	An optimized machine learning framework for predicting intradialytic hypotension using indexes of chronic kidney disease-mineral and bone disorders.. *Computers in Biology and Medicine*, **2022**, 145, 105510	7	0
146	An efficient rotational direction heap-based optimization with orthogonal structure for medical diagnosis.. *Computers in Biology and Medicine*, **2022**, 146, 105563	7	0
145	Multi-strategy ensemble binary hunger games search for feature selection. *Knowledge-Based Systems*, **2022**, 248, 108787	7.3	3
144	Multilevel threshold image segmentation for COVID-19 chest radiography: A framework using horizontal and vertical multiverse optimization. *Computers in Biology and Medicine*, **2022**, 105618	7	2
143	Detection of COVID-19 severity using blood gas analysis parameters and Harris hawks optimized extreme learning machine.. *Computers in Biology and Medicine*, **2021**, 142, 105166	7	9
142	An efficient multilevel thresholding image segmentation method based on the slime mould algorithm with bee foraging mechanism: A real case with lupus nephritis images.. *Computers in Biology and Medicine*, **2021**, 142, 105179	7	5
141	Multi-Threshold Image Segmentation of Maize Diseases Based on Elite Comprehensive Particle Swarm Optimization and Otsu.. *Frontiers in Plant Science*, **2021**, 12, 789911	6.2	2
140	Artificial Intelligence of Things-assisted two-stream neural network for anomaly detection in surveillance Big Video Data. *Future Generation Computer Systems*, **2021**, 129, 286-286	7.5	13
139	Performance optimization of salp swarm algorithm for multi-threshold image segmentation: Comprehensive study of breast cancer microscopy. *Computers in Biology and Medicine*, **2021**, 139, 105013	7	10
138	An effective model for predicting serum albumin level in hemodialysis patients. *Computers in Biology and Medicine*, **2021**, 140, 105054	7	3
137	An evolutionary Nelder□Mead slime mould algorithm with random learning for efficient design of photovoltaic models. *Energy Reports*, **2021**, 7, 8784-8804	4.6	2
136	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. *Knowledge-Based Systems*, **2021**, 237, 107761	7.3	14
135	Evolving kernel extreme learning machine for medical diagnosis via a disperse foraging sine cosine algorithm.. *Computers in Biology and Medicine*, **2021**, 141, 105137	7	8
134	A Principal Component Analysis-Boosted Dynamic Gaussian Mixture Clustering Model for Ignition Factors of Brazil□ Rainforests. *IEEE Access*, **2021**, 9, 145748-145762	3.5	

133	. *IEEE Access*, **2021**, 9, 143824-143835	3.5	7
132	Gaussian Barebone Salp Swarm Algorithm with Stochastic Fractal Search for medical image segmentation: A COVID-19 case study. *Computers in Biology and Medicine*, **2021**, 139, 104941	7	11
131	Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. *Expert Systems With Applications*, **2021**, 171, 114529	7.8	18
130	Parameters extraction of three diode photovoltaic models using boosted LSHADE algorithm and Newton Raphson method. *Energy*, **2021**, 224, 120136	7.9	25
129	MFeature: Towards High Performance Evolutionary Tools for Feature Selection. *Expert Systems With Applications*, **2021**, 115655	7.8	7
128	Multi-objective optimization and multi-criteria decision-making methods for optimal design of standalone photovoltaic system: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110202	16.2	66
127	Multi-core sine cosine optimization: Methods and inclusive analysis. *Expert Systems With Applications*, **2021**, 164, 113974	7.8	13
126	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. *Knowledge-Based Systems*, **2021**, 215, 106425	7.3	49
125	Ensemble mutation-driven salp swarm algorithm with restart mechanism: Framework and fundamental analysis. *Expert Systems With Applications*, **2021**, 165, 113897	7.8	34
124	Chaos-assisted multi-population salp swarm algorithms: Framework and case studies. *Expert Systems With Applications*, **2021**, 168, 114369	7.8	11
123	Evolutionary biogeography-based whale optimization methods with communication structure: Towards measuring the balance. *Knowledge-Based Systems*, **2021**, 212, 106642	7.3	113
122	Survival exploration strategies for Harris Hawks Optimizer. *Expert Systems With Applications*, **2021**, 168, 114243	7.8	23
121	Orthogonal learning covariance matrix for defects of grey wolf optimizer: Insights, balance, diversity, and feature selection. *Knowledge-Based Systems*, **2021**, 213, 106684	7.3	133
120	Ant colony optimization with horizontal and vertical crossover search: Fundamental visions for multi-threshold image segmentation. *Expert Systems With Applications*, **2021**, 167, 114122	7.8	49
119	Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. *Knowledge-Based Systems*, **2021**, 216, 106510	7.3	111
118	Towards augmented kernel extreme learning models for bankruptcy prediction: Algorithmic behavior and comprehensive analysis. *Neurocomputing*, **2021**, 430, 185-212	5.4	102
117	AutoRWN: automatic construction and training of random weight networks using competitive swarm of agents. *Neural Computing and Applications*, **2021**, 33, 5507-5524	4.8	3
116	Harmonized salp chain-built optimization. *Engineering With Computers*, **2021**, 37, 1049-1079	4.5	39

115	Early Recognition and Discrimination of COVID-19 Severity Using Slime Mould Support Vector Machine for Medical Decision-Making. *IEEE Access*, **2021**, 9, 121996-122015	3.5	7
114	An Effective Machine Learning Approach for Identifying Non-Severe and Severe Coronavirus Disease 2019 Patients in a Rural Chinese Population: The Wenzhou Retrospective Study. *IEEE Access*, **2021**, 9, 45486-45503	3.5	8
113	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. *IEEE Access*, **2021**, 9, 100009-100028	3.5	4
112	Spiral Motion Mode Embedded Grasshopper Optimization Algorithm: Design and Analysis. *IEEE Access*, **2021**, 9, 71104-71132	3.5	5
111	AI assisted Edge Vision for Violence Detection in IoT based Industrial Surveillance Networks. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	9
110	MOSMA: Multi-Objective Slime Mould Algorithm Based on Elitist Non-Dominated Sorting. *IEEE Access*, **2021**, 9, 3229-3248	3.5	42
109	Random learning gradient based optimization for efficient design of photovoltaic models. *Energy Conversion and Management*, **2021**, 230, 113751	10.6	19
108	Harris hawks optimization: a comprehensive review of recent variants and applications. *Neural Computing and Applications*, **2021**, 33, 8939-8980	4.8	35
107	Double adaptive weights for stabilization of moth flame optimizer: Balance analysis, engineering cases, and medical diagnosis. *Knowledge-Based Systems*, **2021**, 214, 106728	7.3	94
106	Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. *Computers in Biology and Medicine*, **2021** , 134, 104427	7	34
105	Multi-strategy Gaussian Harris hawks optimization for fatigue life of tapered roller bearings. *Engineering With Computers*, **2021**, 1-27	4.5	4
104	Evolving fuzzy k-nearest neighbors using an enhanced sine cosine algorithm: Case study of lupus nephritis. *Computers in Biology and Medicine*, **2021**, 135, 104582	7	10
103	Evolutionary warning system for COVID-19 severity: Colony predation algorithm enhanced extreme learning machine. *Computers in Biology and Medicine*, **2021**, 136, 104698	7	17
102	Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. *Computers in Biology and Medicine*, **2021**, 138, 104910	7	18
101	Laplacian Nelder-Mead spherical evolution for parameter estimation of photovoltaic models. *Energy Conversion and Management*, **2021**, 243, 114223	10.6	12
100	Boosted kernel search: Framework, analysis and case studies on the economic emission dispatch problem. *Knowledge-Based Systems*, **2021**, 107529	7.3	7
99	Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. *Energy Conversion and Management*, **2021**, 244, 114484	10.6	14
98	Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. *Computers in Biology and Medicine*, **2021**, 136, 104609	7	17

97	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. *Expert Systems With Applications*, **2021**, 177, 114864	7.8	203
96	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. *Energy Reports*, **2021**, 7, 228-246	4.6	15
95	Evolutionary shuffled frog leaping with memory pool for parameter optimization. *Energy Reports*, **2021**, 7, 584-606	4.6	18
94	Secret Sharing-based Personal Health Records Management for the Internet of Health Things. *Sustainable Cities and Society*, **2021**, 74, 103129	10.1	10
93	Boosting slime mould algorithm for parameter identification of photovoltaic models. *Energy*, **2021**, 234, 121164	7.9	24
92	A text GAN framework for creative essay recommendation. *Knowledge-Based Systems*, **2021**, 232, 107501	7.3	4
91	Metaphor-free dynamic spherical evolution for parameter estimation of photovoltaic modules. *Energy Reports*, **2021**, 7, 5175-5202	4.6	12
90	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. *Expert Systems With Applications*, **2021**, 181, 115079	7.8	135
89	Gradient-based optimization with ranking mechanisms for parameter identification of photovoltaic systems. *Energy Reports*, **2021**, 7, 3979-3997	4.6	19
88	Boosting quantum rotation gate embedded slime mould algorithm. *Expert Systems With Applications*, **2021**, 181, 115082	7.8	20
87	Opposition-based moth swarm algorithm. *Expert Systems With Applications*, **2021**, 184, 115481	7.8	11
86	Elitist non-dominated sorting Harris hawks optimization: Framework and developments for multi-objective problems. *Expert Systems With Applications*, **2021**, 186, 115747	7.8	6
85	Enhancing Secrecy Performance of Cooperative NOMA-based IoT Networks via Multi-Antenna Aided Artificial Noise. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	0
84	Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. *Soft Computing*, **2021**, 25, 3335-3352	3.5	10
83	. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	20
82	Chaotic Arc Adaptive Grasshopper Optimization. *IEEE Access*, **2021**, 9, 17672-17706	3.5	4
81	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
80	Boosted hunting-based fruit fly optimization and advances in real-world problems. *Expert Systems With Applications*, **2020**, 159, 113502	7.8	13

79	Opposition-based learning Harris hawks optimization with advanced transition rules: principles and analysis. *Expert Systems With Applications*, **2020**, 158, 113510	7.8	43
78	Orthogonally adapted Harris hawks optimization for parameter estimation of photovoltaic models. *Energy*, **2020**, 203, 117804	7.9	97
77	DUPLICATE: Advanced Orthogonal Moth Flame Optimization with Broyden Fletcher Goldfarb Shanno Algorithm: Framework and Real-world Problems. *Expert Systems With Applications: X*, **2020**, 100032	3.6	1
76	Quantum-like mutation-induced dragonfly-inspired optimization approach. *Mathematics and Computers in Simulation*, **2020**, 178, 259-289	3.3	16
75	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
74	Prediction Optimization of Cervical Hyperextension Injury: Kernel Extreme Learning Machines With Orthogonal Learning Butterfly Optimizer and Broyden- Fletcher-Goldfarb-Shanno Algorithms. *IEEE Access*, **2020**, 8, 119911-119930	3.5	6
73	Boosted mutation-based Harris hawks optimizer for parameters identification of single-diode solar cell models. *Energy Conversion and Management*, **2020**, 209, 112660	10.6	106
72	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. *Energy*, **2020**, 198, 117333	7.9	74
71	Predicting Cervical Hyperextension Injury: A Covariance Guided Sine Cosine Support Vector Machine. *IEEE Access*, **2020**, 8, 46895-46908	3.5	35
70	Rationalized Sine Cosine Optimization With Efficient Searching Patterns. *IEEE Access*, **2020**, 8, 61471-61490	3.5	18
69	A dynamic locality multi-objective salp swarm algorithm for feature selection. *Computers and Industrial Engineering*, **2020**, 147, 106628	6.4	40
68	Orthogonally-designed adapted grasshopper optimization: A comprehensive analysis. *Expert Systems With Applications*, **2020**, 150, 113282	7.8	44
67	Predicting Green Consumption Behaviors of Students Using Efficient Firefly Grey Wolf-Assisted K-Nearest Neighbor Classifiers. *IEEE Access*, **2020**, 8, 35546-35562	3.5	41
66	A competitive chain-based Harris Hawks Optimizer for global optimization and multi-level image thresholding problems. *Applied Soft Computing Journal*, **2020**, 95, 106347	7.5	47
65	Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. *Expert Systems With Applications*, **2020**, 157, 113486	7.8	39
64	Orthogonal Nelder-Mead moth flame method for parameters identification of photovoltaic modules. *Energy Conversion and Management*, **2020**, 211, 112764	10.6	89
63	An efficient Harris hawks-inspired image segmentation method. *Expert Systems With Applications*, **2020**, 155, 113428	7.8	74
62	Slime mould algorithm: A new method for stochastic optimization. *Future Generation Computer Systems*, **2020**, 111, 300-323	7.5	705

61	Evaluation of Sino Foreign Cooperative Education Project Using Orthogonal Sine Cosine Optimized Kernel Extreme Learning Machine. *IEEE Access*, **2020**, 8, 61107-61123	3.5	52
60	Predicting Entrepreneurial Intention of Students: An Extreme Learning Machine With Gaussian Barebone Harris Hawks Optimizer. *IEEE Access*, **2020**, 8, 76841-76855	3.5	64
59	Evolutionary and Swarm-Based Feature Selection for Imbalanced Data Classification. *Algorithms for Intelligent Systems*, **2020**, 231-250	0.5	3
58	Binary Harris Hawks Optimizer for High-Dimensional, Low Sample Size Feature Selection. *Algorithms for Intelligent Systems*, **2020**, 251-272	0.5	30
57	Salp Chain-Based Optimization of Support Vector Machines and Feature Weighting for Medical Diagnostic Information Systems. *Algorithms for Intelligent Systems*, **2020**, 11-34	0.5	10
56	Efficient Moth-Flame-Based Neuroevolution Models. *Algorithms for Intelligent Systems*, **2020**, 51-66	0.5	1
55	Autonomous Robot Navigation Using Moth-Flame-Based Neuroevolution. *Algorithms for Intelligent Systems*, **2020**, 67-83	0.5	6
54	Link Prediction Using Evolutionary Neural Network Models. *Algorithms for Intelligent Systems*, **2020**, 85-101	0.5	4
53	A quantum-behaved simulated annealing algorithm-based moth-flame optimization method. *Applied Mathematical Modelling*, **2020**, 87, 1-19	4.5	31
52	Orthogonal learning harmonizing mutation-based fruit fly-inspired optimizers. *Applied Mathematical Modelling*, **2020**, 86, 368-383	4.5	11
51	Exploratory differential ant lion-based optimization. *Expert Systems With Applications*, **2020**, 159, 113548	7.8	14
50	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. *Future Generation Computer Systems*, **2020**, 112, 18-40	7.5	26
49	Time-varying hierarchical chains of salps with random weight networks for feature selection. *Expert Systems With Applications*, **2020**, 140, 112898	7.8	51
48	A multi-strategy enhanced sine cosine algorithm for global optimization and constrained practical engineering problems. *Applied Mathematics and Computation*, **2020**, 369, 124872	2.7	62
47	Advanced orthogonal learning-driven multi-swarm sine cosine optimization: Framework and case studies. *Expert Systems With Applications*, **2020**, 144, 113113	7.8	57
46	Application of Machine Learning to Stomatology: A Comprehensive Review. *IEEE Access*, **2020**, 8, 184360-184374	3.5	84
45	Horizontal and vertical crossover of Harris hawk optimizer with Nelder-Mead simplex for parameter estimation of photovoltaic models. *Energy Conversion and Management*, **2020**, 223, 113211	10.6	54
44	Evaluation of constraint in photovoltaic models by exploiting an enhanced ant lion optimizer. *Solar Energy*, **2020**, 211, 503-521	6.8	25

43	Multi-population following behavior-driven fruit fly optimization: A Markov chain convergence proof and comprehensive analysis. *Knowledge-Based Systems*, **2020**, 210, 106437	7.3	36
42	Chaotic oppositional sine-cosine method for solving global optimization problems. *Engineering With Computers*, **2020**, 1	4.5	34
41	Predicting Di-2-Ethylhexyl Phthalate Toxicity: Hybrid Integrated Harris Hawks Optimization With Support Vector Machines. *IEEE Access*, **2020**, 8, 161188-161202	3.5	8
40	An enhanced associative learning-based exploratory whale optimizer for global optimization. *Neural Computing and Applications*, **2020**, 32, 5185-5211	4.8	50
39	Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. *Knowledge and Information Systems*, **2020**, 62, 507-539	2.4	45
38	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. *Studies in Computational Intelligence*, **2020**, 47-67	0.8	30
37	Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. *Studies in Computational Intelligence*, **2020**, 123-141	0.8	37
36	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. *Studies in Computational Intelligence*, **2020**, 185-199	0.8	36
35	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. *Studies in Computational Intelligence*, **2020**, 23-46	0.8	43
34	Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. *Studies in Computational Intelligence*, **2020**, 87-105	0.8	18
33	Gaussian mutational chaotic fruit fly-built optimization and feature selection. *Expert Systems With Applications*, **2020**, 141, 112976	7.8	123
32	Efficient multi-population outpost fruit fly-driven optimizers: Framework and advances in support vector machines. *Expert Systems With Applications*, **2020**, 142, 112999	7.8	64
31	An efficient double adaptive random spare reinforced whale optimization algorithm. *Expert Systems With Applications*, **2020**, 154, 113018	7.8	64
30	Parameters identification of photovoltaic cells and modules using diversification-enriched Harris hawks optimization with chaotic drifts. *Journal of Cleaner Production*, **2020**, 244, 118778	10.3	142
29	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. *Neural Computing and Applications*, **2020**, 32, 12201-12220	4.8	56
28	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. *Cognitive Computation*, **2020**, 12, 150-175	4.4	54
27	Multi-population differential evolution-assisted Harris hawks optimization: Framework and case studies. *Future Generation Computer Systems*, **2020**, 111, 175-198	7.5	177
26	Efficient boosted grey wolf optimizers for global search and kernel extreme learning machine training. *Applied Soft Computing Journal*, **2019**, 81, 105521	7.5	65

25	An opposition-based sine cosine approach with local search for parameter estimation of photovoltaic models. *Energy Conversion and Management*, **2019**, 195, 927-942	10.6	152
24	An evolutionary gravitational search-based feature selection. *Information Sciences*, **2019**, 497, 219-239	7.7	118
23	Chaos-Induced and Mutation-Driven Schemes Boosting Salp Chains-Inspired Optimizers. *IEEE Access* , **2019**, 7, 31243-31261	3.5	62
22	Multi-strategy boosted mutative whale-inspired optimization approaches. *Applied Mathematical Modelling*, **2019**, 73, 109-123	4.5	98
21	An efficient chaotic mutative moth-flame-inspired optimizer for global optimization tasks. *Expert Systems With Applications*, **2019**, 129, 135-155	7.8	142
20	An intelligent system for spam detection and identification of the most relevant features based on evolutionary Random Weight Networks. *Information Fusion*, **2019**, 48, 67-83	16.7	144
19	An efficient hybrid multilayer perceptron neural network with grasshopper optimization. *Soft Computing*, **2019**, 23, 7941-7958	3.5	129
18	Predicting Intentions of Students for Master Programs Using a Chaos-Induced Sine Cosine-Based Fuzzy K-Nearest Neighbor Classifier. *IEEE Access*, **2019**, 7, 67235-67248	3.5	63
17	Harris hawks optimization: Algorithm and applications. *Future Generation Computer Systems*, **2019**, 97, 849-872	7.5	1523
16	A balanced whale optimization algorithm for constrained engineering design problems. *Applied Mathematical Modelling*, **2019**, 71, 45-59	4.5	156
15	An efficient salp swarm-inspired algorithm for parameters identification of photovoltaic cell models. *Energy Conversion and Management*, **2019**, 179, 362-372	10.6	212
14	Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. *Knowledge-Based Systems*, **2018**, 145, 25-45	7.3	243
13	Binary dragonfly optimization for feature selection using time-varying transfer functions. *Knowledge-Based Systems*, **2018**, 161, 185-204	7.3	232
12	Asynchronous accelerating multi-leader salp chains for feature selection. *Applied Soft Computing Journal*, **2018**, 71, 964-979	7.5	143
11	An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. *Knowledge-Based Systems*, **2018**, 154, 43-67	7.3	339
10	Enhanced Chaotic Grey Wolf Optimizer for Real-World Optimization Problems. *Advances in Business Information Systems and Analytics Book Series*, **2018**, 693-727	0.4	8
9	A Novel and Efficient Algorithm for three-dimensional Coverage and Deployment of Aerial Robots in Vector Spaces. *Journal of Geospatial Information Technology*, **2018**, 6, 15-43	0.1	
8	An efficient chaotic water cycle algorithm for optimization tasks. *Neural Computing and Applications* , **2017**, 28, 57-85	4.8	97

7	Gaussian bare-bones water cycle algorithm for optimal reactive power dispatch in electrical power systems. *Applied Soft Computing Journal*, **2017**, 57, 657-671	7.5	111
6	An efficient modified grey wolf optimizer with Lévy flight for optimization tasks. *Applied Soft Computing Journal*, **2017**, 60, 115-134	7.5	232
5	Boosting whale optimization with evolution strategy and Gaussian random walks: an image segmentation method. *Engineering With Computers*,1	4.5	9
4	Chaotic diffusion-limited aggregation enhanced grey wolf optimizer: Insights, analysis, binarization, and feature selection. *International Journal of Intelligent Systems*,	8.4	3
3	Elite dominance scheme ingrained adaptive salp swarm algorithm: a comprehensive study. *Engineering With Computers*,1	4.5	3
2	An enhanced Cauchy mutation grasshopper optimization with trigonometric substitution: engineering design and feature selection. *Engineering With Computers*,1	4.5	2
1	Adaptive slime mould algorithm for optimal design of photovoltaic models. *Energy Science and Engineering*,	3.4	4