

# About Ella Hassanien

## List of Publications by Year in descending order

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661  
papers

18,210  
citations

19636

61  
h-index

24961

109  
g-index

711  
all docs

711  
docs citations

711  
times ranked

12677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary grey wolf optimization approaches for feature selection. <i>Neurocomputing</i> , 2016, 172, 371-381.	3.5	1,026
2	Linear discriminant analysis: A detailed tutorial. <i>AI Communications</i> , 2017, 30, 169-190.	0.8	576
3	Parameter estimation of photovoltaic cells using an improved chaotic whale optimization algorithm. <i>Applied Energy</i> , 2017, 200, 141-154.	5.1	491
4	Whale Optimization Algorithm and Moth-Flame Optimization for multilevel thresholding image segmentation. <i>Expert Systems With Applications</i> , 2017, 83, 242-256.	4.4	449
5	Wearable and Implantable Wireless Sensor Network Solutions for Healthcare Monitoring. <i>Sensors</i> , 2011, 11, 5561-5595.	2.1	439
6	Binary ant lion approaches for feature selection. <i>Neurocomputing</i> , 2016, 213, 54-65.	3.5	363
7	Feature selection via a novel chaotic crow search algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 171-188.	3.2	330
8	The impact of the hybrid platform of internet of things and cloud computing on healthcare systems: opportunities, challenges, and open problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 4151-4166.	3.3	279
9	A machine learning forecasting model for COVID-19 pandemic in India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 959-972.	1.9	253
10	Sentiment Analysis of COVID-19 tweets by Deep Learning Classifiers – A study to show how popularity is affecting accuracy in social media. <i>Applied Soft Computing Journal</i> , 2020, 97, 106754.	4.1	244
11	Forecasting Models for Coronavirus Disease (COVID-19): A Survey of the State-of-the-Art. <i>SN Computer Science</i> , 2020, 1, 197.	2.3	197
12	Bezier Curve Based Path Planning in a Dynamic Field using Modified Genetic Algorithm. <i>Journal of Computational Science</i> , 2018, 25, 339-350.	1.5	185
13	Chaotic dragonfly algorithm: an improved metaheuristic algorithm for feature selection. <i>Applied Intelligence</i> , 2019, 49, 188-205.	3.3	176
14	An optimized dense convolutional neural network model for disease recognition and classification in corn leaf. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105456.	3.7	176
15	Scheduling jobs on computational grids using a fuzzy particle swarm optimization algorithm. <i>Future Generation Computer Systems</i> , 2010, 26, 1336-1343.	4.9	174
16	Intelligent Bezier curve-based path planning model using Chaotic Particle Swarm Optimization algorithm. <i>Cluster Computing</i> , 2019, 22, 4745-4766.	3.5	161
17	Improved diagnosis of Parkinson's disease using optimized crow search algorithm. <i>Computers and Electrical Engineering</i> , 2018, 68, 412-424.	3.0	151
18	Association between weather data and COVID-19 pandemic predicting mortality rate: Machine learning approaches. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 110137.	2.5	150

#	ARTICLE	IF	CITATIONS
19	A random forest classifier for lymph diseases. Computer Methods and Programs in Biomedicine, 2014, 113, 465-473.	2.6	147
20	Dimensionality reduction of medical big data using neural-fuzzy classifier. Soft Computing, 2015, 19, 1115-1127.	2.1	147
21	An optimized model based on convolutional neural networks and orthogonal learning particle swarm optimization algorithm for plant diseases diagnosis. Swarm and Evolutionary Computation, 2020, 52, 100616.	4.5	147
22	Optimizing K-coverage of mobile WSNs. Expert Systems With Applications, 2018, 92, 142-153.	4.4	137
23	Modified cuckoo search algorithm with rough sets for feature selection. Neural Computing and Applications, 2018, 29, 925-934.	3.2	136
24	Rough Sets and Near Sets in Medical Imaging: A Review. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 955-968.	3.6	135
25	ASCA-PSO: Adaptive sine cosine optimization algorithm integrated with particle swarm for pairwise local sequence alignment. Expert Systems With Applications, 2018, 99, 56-70.	4.4	129
26	Hybrid Intelligent Intrusion Detection Scheme. Advances in Intelligent and Soft Computing, 2011, , 293-303.	0.2	129
27	Fuzzy rough sets hybrid scheme for breast cancer detection. Image and Vision Computing, 2007, 25, 172-183.	2.7	128
28	A BA-based algorithm for parameter optimization of Support Vector Machine. Pattern Recognition Letters, 2017, 93, 13-22.	2.6	124
29	Trust-based secure clustering in WSN-based intelligent transportation systems. Computer Networks, 2018, 146, 151-158.	3.2	121
30	An optimized deep learning architecture for the diagnosis of COVID-19 disease based on gravitational search optimization. Applied Soft Computing Journal, 2021, 98, 106742.	4.1	118
31	Adaptive k-means clustering algorithm for MR breast image segmentation. Neural Computing and Applications, 2014, 24, 1917-1928.	3.2	117
32	K-Coverage Model Based on Genetic Algorithm to Extend WSN Lifetime. , 2017, 1, 1-4.		117
33	Using machine learning techniques for evaluating tomato ripeness. Expert Systems With Applications, 2015, 42, 1892-1905.	4.4	114
34	A multi-objective transportation model under neutrosophic environment. Computers and Electrical Engineering, 2018, 69, 705-719.	3.0	110
35	S-shaped Binary Whale Optimization Algorithm for Feature Selection. Advances in Intelligent Systems and Computing, 2019, , 79-87.	0.5	110
36	Chaotic multi-verse optimizer-based feature selection. Neural Computing and Applications, 2019, 31, 991-1006.	3.2	110

#	ARTICLE	IF	CITATIONS
37	Fear from COVID-19 and technology adoption: the impact of Google Meet during Coronavirus pandemic. <i>Interactive Learning Environments</i> , 2023, 31, 1293-1308.	4.4	110
38	New binary whale optimization algorithm for discrete optimization problems. <i>Engineering Optimization</i> , 2020, 52, 945-959.	1.5	106
39	A new binary salp swarm algorithm: development and application for optimization tasks. <i>Neural Computing and Applications</i> , 2019, 31, 1641-1663.	3.2	104
40	A survey of swarm and evolutionary computing approaches for deep learning. <i>Artificial Intelligence Review</i> , 2020, 53, 1767-1812.	9.7	104
41	Biometric cattle identification approach based on Weber's Local Descriptor and AdaBoost classifier. <i>Computers and Electronics in Agriculture</i> , 2016, 122, 55-66.	3.7	103
42	A New Chaotic Whale Optimization Algorithm for Features Selection. <i>Journal of Classification</i> , 2018, 35, 300-344.	1.2	100
43	Tomato leaves diseases detection approach based on Support Vector Machines. , 2015, , .		99
44	Chaotic crow search algorithm for fractional optimization problems. <i>Applied Soft Computing Journal</i> , 2018, 71, 1161-1175.	4.1	99
45	Recognizing human activity in mobile crowdsensing environment using optimized k-NN algorithm. <i>Expert Systems With Applications</i> , 2018, 107, 32-44.	4.4	98
46	Multi-Objective Gray-Wolf Optimization for Attribute Reduction. <i>Procedia Computer Science</i> , 2015, 65, 623-632.	1.2	95
47	An improved moth flame optimization algorithm based on rough sets for tomato diseases detection. <i>Computers and Electronics in Agriculture</i> , 2017, 136, 86-96.	3.7	95
48	Multi-objective whale optimization algorithm for content-based image retrieval. <i>Multimedia Tools and Applications</i> , 2018, 77, 26135-26172.	2.6	95
49	A novel melanoma prediction model for imbalanced data using optimized SqueezeNet by bald eagle search optimization. <i>Computers in Biology and Medicine</i> , 2021, 136, 104712.	3.9	91
50	An effective SVD-based image tampering detection and self-recovery using active watermarking. <i>Signal Processing: Image Communication</i> , 2014, 29, 1197-1210.	1.8	90
51	Chaotic antlion algorithm for parameter optimization of support vector machine. <i>Applied Intelligence</i> , 2018, 48, 670-686.	3.3	90
52	MRI breast cancer diagnosis hybrid approach using adaptive ant-based segmentation and multilayer perceptron neural networks classifier. <i>Applied Soft Computing Journal</i> , 2014, 14, 62-71.	4.1	88
53	Retinal Blood Vessel Segmentation Approach Based on Mathematical Morphology. <i>Procedia Computer Science</i> , 2015, 65, 612-622.	1.2	88
54	A Chaotic Improved Artificial Bee Colony for Parameter Estimation of Photovoltaic Cells. <i>Energies</i> , 2017, 10, 865.	1.6	88

#	ARTICLE	IF	CITATIONS
55	Sine cosine optimization algorithm for feature selection. , 2016, , .		79
56	Liver segmentation in MRI images based on whale optimization algorithm. Multimedia Tools and Applications, 2017, 76, 24931-24954.	2.6	79
57	CT liver tumor segmentation hybrid approach using neutrosophic sets, fast fuzzy c-means and adaptive watershed algorithm. Artificial Intelligence in Medicine, 2019, 97, 105-117.	3.8	76
58	Moth-flame optimization for training Multi-Layer Perceptrons. , 2015, , .		74
59	Classification of toxicity effects of biotransformed hepatic drugs using whale optimized support vector machines. Journal of Biomedical Informatics, 2017, 68, 132-149.	2.5	74
60	Artificial Intelligence Technique for Gene Expression by Tumor RNA-Seq Data: A Novel Optimized Deep Learning Approach. IEEE Access, 2020, 8, 22874-22883.	2.6	71
61	Fuzzy and hard clustering analysis for thyroid disease. Computer Methods and Programs in Biomedicine, 2013, 111, 1-16.	2.6	70
62	MOGOA algorithm for constrained and unconstrained multi-objective optimization problems. Applied Intelligence, 2018, 48, 2268-2283.	3.3	70
63	New binary bat algorithm for solving 0-1 knapsack problem. Complex & Intelligent Systems, 2018, 4, 31-53.	4.0	70
64	ARIMA models for predicting the end of COVID-19 pandemic and the risk of second rebound. Neural Computing and Applications, 2021, 33, 2929-2948.	3.2	68
65	A hybrid SA-MFO algorithm for function optimization and engineering design problems. Complex & Intelligent Systems, 2018, 4, 195-212.	4.0	66
66	SIFT-Based Arabic Sign Language Recognition System. Advances in Intelligent Systems and Computing, 2015, , 359-370.	0.5	65
67	A binary whale optimization algorithm with hyperbolic tangent fitness function for feature selection. , 2017, , .		65
68	Swarming behaviour of salps algorithm for predicting chemical compound activities. , 2017, , .		65
69	Breast cancer MRI diagnosis approach using support vector machine and pulse coupled neural networks. Journal of Applied Logic, 2012, 10, 277-284.	1.1	64
70	SVM-Based Detection of Tomato Leaves Diseases. Advances in Intelligent Systems and Computing, 2015, , 641-652.	0.5	64
71	An improved fast fuzzy c-means using crow search optimization algorithm for crop identification in agricultural. Expert Systems With Applications, 2019, 118, 340-354.	4.4	63
72	Rough set approach for attribute reduction and rule generation: A case of patients with suspected breast cancer. Journal of the Association for Information Science and Technology, 2004, 55, 954-962.	2.6	62

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73	A new chaotic multi-verse optimization algorithm for solving engineering optimization problems. Journal of Experimental and Theoretical Artificial Intelligence, 2018, 30, 293-317.	1.8	62
74	Moth-flame swarm optimization with neutrosophic sets for automatic mitosis detection in breast cancer histology images. Applied Intelligence, 2017, 47, 397-408.	3.3	59
75	Enhanced Elephant Herding Optimization for Global Optimization. IEEE Access, 2019, 7, 34738-34752.	2.6	59
76	Comparison of classification techniques applied for network intrusion detection and classification. Journal of Applied Logic, 2017, 24, 109-118.	1.1	58
77	Analysis of Twitter Data Using Evolutionary Clustering during the COVID-19 Pandemic. Computers, Materials and Continua, 2020, 65, 193-204.	1.5	58
78	Identifying Two of Tomatoes Leaf Viruses Using Support Vector Machine. Advances in Intelligent Systems and Computing, 2015, , 771-782.	0.5	56
79	End-to-End Deep Learning Model for Corn Leaf Disease Classification. IEEE Access, 2022, 10, 31103-31115.	2.6	56
80	ArSLAT: Arabic Sign Language Alphabets Translator. , 2010, , .		54
81	A Framework for Big Data Analysis in Smart Cities. Advances in Intelligent Systems and Computing, 2018, , 405-414.	0.5	52
82	Particle Swarm Optimization from Theory to Applications. International Journal of Rough Sets and Data Analysis, 2018, 5, 1-24.	1.0	52
83	Intelligent human emotion recognition based on elephant herding optimization tuned support vector regression. Biomedical Signal Processing and Control, 2018, 45, 182-191.	3.5	52
84	Automatic fruit classification using random forest algorithm. , 2014, , .		51
85	Computer-Aided Acute Lymphoblastic Leukemia Diagnosis System Based on Image Analysis. Studies in Computational Intelligence, 2018, , 131-147.	0.7	51
86	Maximizing lifetime of large-scale wireless sensor networks using multi-objective whale optimization algorithm. Telecommunication Systems, 2019, 72, 243-259.	1.6	51
87	An efficient retinal blood vessel segmentation in eye fundus images by using optimized top-hat and homomorphic filtering. Computer Methods and Programs in Biomedicine, 2021, 201, 105949.	2.6	51
88	Computational intelligence techniques in bioinformatics. Computational Biology and Chemistry, 2013, 47, 37-47.	1.1	50
89	A hybrid crow search algorithm based on rough searching scheme for solving engineering optimization problems. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	49
90	A New Multi-layer Perceptrons Trainer Based on Ant Lion Optimization Algorithm. , 2015, , .		47

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91	Multi-objective orthogonal opposition-based crow search algorithm for large-scale multi-objective optimization. <i>Neural Computing and Applications</i> , 2020, 32, 13715-13746.	3.2	47
92	Fruit-Based Tomato Grading System Using Features Fusion and Support Vector Machine. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 401-410.	0.5	45
93	Cyber physical systems design, methodology, and integration: the current status and future outlook. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 1541-1556.	3.3	45
94	Chaos-opposition-enhanced slime mould algorithm for minimizing the cost of energy for the wind turbines on high-altitude sites. <i>ISA Transactions</i> , 2022, 121, 191-205.	3.1	45
95	Linear Correlation-Based Feature Selection for Network Intrusion Detection Model. <i>Communications in Computer and Information Science</i> , 2013, , 240-248.	0.4	44
96	Machine learning in telemetry data mining of space mission: basics, challenging and future directions. <i>Artificial Intelligence Review</i> , 2020, 53, 3201-3230.	9.7	44
97	Feature extraction of epilepsy EEG using discrete wavelet transform. , 2016, , .		43
98	Prediction of biochar yield using adaptive neuro-fuzzy inference system with particle swarm optimization. , 2017, , .		43
99	Multi-objective Whale Optimization Algorithm for Multilevel Thresholding Segmentation. <i>Studies in Computational Intelligence</i> , 2018, , 23-39.	0.7	43
100	Automatic Nile Tilapia fish classification approach using machine learning techniques. , 2013, , .		42
101	Log Transform Based Optimal Image Enhancement Using Firefly Algorithm for Autonomous Mini Unmanned Aerial Vehicle: An Application of Aerial Photography. <i>International Journal of Image and Graphics</i> , 2018, 18, 1850019.	1.2	42
102	Expert System Based on Neural-Fuzzy Rules for Thyroid Diseases Diagnosis. <i>Communications in Computer and Information Science</i> , 2012, , 94-105.	0.4	42
103	Retinal blood vessel localization approach based on bee colony swarm optimization, fuzzy c-means and pattern search. <i>Journal of Visual Communication and Image Representation</i> , 2015, 31, 186-196.	1.7	41
104	Optimized superpixel and AdaBoost classifier for human thermal face recognition. <i>Signal, Image and Video Processing</i> , 2018, 12, 711-719.	1.7	41
105	Spiking neural network and wavelets for hiding iris data in digital images. <i>Soft Computing</i> , 2009, 13, 401-416.	2.1	40
106	Automatic Fruit Image Recognition System Based on Shape and Color Features. <i>Communications in Computer and Information Science</i> , 2014, , 278-290.	0.4	40
107	Retinal vessel segmentation based on possibilistic fuzzy c-means clustering optimised with cuckoo search. , 2014, , .		40
108	Detection of Breast Abnormalities of Thermograms based on a New Segmentation Method. , 0, , .		40

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109	Brain Computer Interface: A Review. Intelligent Systems Reference Library, 2015, , 3-30.	1.0	40
110	A Disaster Management Specific Mobility Model for Flying Ad-hoc Network. International Journal of Rough Sets and Data Analysis, 2016, 3, 72-103.	1.0	40
111	Brain MRI Tumor Segmentation with 3D Intracranial Structure Deformation Features. IEEE Intelligent Systems, 2016, 31, 66-76.	4.0	40
112	A biometric-based model for fish species classification. Fisheries Research, 2018, 204, 324-336.	0.9	40
113	Thermogram breast cancer prediction approach based on Neutrosophic sets and fuzzy c-means algorithm. , 2015, 2015, 4254-7.		39
114	Loan portfolio optimization using Genetic Algorithm: A case of credit constraints. , 2016, , .		39
115	Retinal fundus vasculature multilevel segmentation using whale optimization algorithm. Signal, Image and Video Processing, 2018, 12, 263-270.	1.7	39
116	Quantum multiverse optimization algorithm for optimization problems. Neural Computing and Applications, 2019, 31, 2763-2780.	3.2	39
117	Automatic acute lymphoblastic leukemia classification model using social spider optimization algorithm. Soft Computing, 2019, 23, 6345-6360.	2.1	38
118	Quantum-Behaved Particle Swarm Optimization for Parameter Optimization of Support Vector Machine. Journal of Classification, 2019, 36, 576-598.	1.2	38
119	RoadMonitor: An Intelligent Road Surface Condition Monitoring System. Advances in Intelligent Systems and Computing, 2015, , 377-387.	0.5	37
120	Training feedforward neural networks using Sine-Cosine algorithm to improve the prediction of liver enzymes on fish farmed on nano-selenite. , 2016, , .		37
121	The prediction of virus mutation using neural networks and rough set techniques. Eurasip Journal on Bioinformatics and Systems Biology, 2016, 2016, 10.	1.4	36
122	Cattle Identification Using Muzzle Print Images Based on Texture Features Approach. Advances in Intelligent Systems and Computing, 2014, , 217-227.	0.5	36
123	An innovative approach for feature selection based on chicken swarm optimization. , 2015, , .		35
124	CT Liver Segmentation Using Artificial Bee Colony Optimisation. Procedia Computer Science, 2015, 60, 1622-1630.	1.2	35
125	Computational intelligence optimization approach based on particle swarm optimizer and neutrosophic set for abdominal CT liver tumor segmentation. Journal of Computational Science, 2018, 25, 376-387.	1.5	35
126	Sheep Identification Using a Hybrid Deep Learning and Bayesian Optimization Approach. IEEE Access, 2019, 7, 31681-31687.	2.6	35



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127	Plant classification system based on leaf features. , 2014, , .		34
128	Cattle Identification Based on Muzzle Images Using Gabor Features and SVM Classifier. Communications in Computer and Information Science, 2014, , 236-247.	0.4	34
129	COVID-19: a new deep learning computer-aided model for classification. PeerJ Computer Science, 2021, 7, e358.	2.7	33
130	A Cattle Identification Approach Using Live Captured Muzzle Print Images. Communications in Computer and Information Science, 2013, , 143-152.	0.4	33
131	A New Heuristic Function of Ant Colony System for Retinal Vessel Segmentation. International Journal of Rough Sets and Data Analysis, 2014, 1, 15-30.	1.0	32
132	Retinal blood vessel segmentation using bee colony optimisation and pattern search. , 2014, , .		31
133	Two biometric approaches for cattle identification based on features and classifiers fusion. International Journal of Image Mining, 2015, 1, 342.	0.1	31
134	An adaptive watermarking approach based on weighted quantum particle swarm optimization. Neural Computing and Applications, 2016, 27, 469-481.	3.2	31
135	Watermarking in Biomedical Signal Processing. Studies in Computational Intelligence, 2017, , 345-369.	0.7	31
136	ECG signals classification: a review. International Journal of Intelligent Engineering Informatics, 2017, 5, 376.	0.1	31
137	Machine Learning-Based Soccer Video Summarization System. Communications in Computer and Information Science, 2011, , 19-28.	0.4	31
138	Hybrid System based on Rough Sets and Genetic Algorithms for Medical Data Classifications. International Journal of Fuzzy System Applications, 2013, 3, 31-46.	0.5	30
139	Secure Automated Forensic Investigation for Sustainable Critical Infrastructures Compliant with Green Computing Requirements. IEEE Transactions on Sustainable Computing, 2020, 5, 174-191.	2.2	30
140	A novel perceptual two layer image fusion using deep learning for imbalanced COVID-19 dataset. PeerJ Computer Science, 2021, 7, e364.	2.7	30
141	Multi-objective retinal vessel localization using flower pollination search algorithm with pattern search. Advances in Data Analysis and Classification, 2017, 11, 611-627.	0.9	29
142	An improved social spider optimization algorithm based on rough sets for solving minimum number attribute reduction problem. Neural Computing and Applications, 2018, 30, 2441-2452.	3.2	29
143	Delay Tolerant Network assisted flying Ad-Hoc network scenario: modeling and analytical perspective. Wireless Networks, 2019, 25, 2675-2695.	2.0	29
144	Hybrid rough-bijjective soft set classification system. Neural Computing and Applications, 2018, 29, 67-78.	3.2	28

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145	SVM-based soccer video summarization system. , 2011, , .		27
146	Bio-inspired Swarm Techniques for Thermogram Breast Cancer Detection. Studies in Computational Intelligence, 2016, , 487-506.	0.7	27
147	One-dimensional vs. two-dimensional based features: Plant identification approach. Journal of Applied Logic, 2017, 24, 15-31.	1.1	27
148	HANA: A Healthy Artificial Nutrition Analysis model during COVID-19 pandemic. Computers in Biology and Medicine, 2021, 135, 104606.	3.9	27
149	Hiding iris data for authentication of digital images using wavelet theory. Pattern Recognition and Image Analysis, 2006, 16, 637-643.	0.6	26
150	A Hybrid Approach to Diagnosis of Hepatic Tumors in Computed Tomography Images. International Journal of Rough Sets and Data Analysis, 2014, 1, 31-48.	1.0	26
151	Multi-target QSAR modelling of chemo-genomic data analysis based on Extreme Learning Machine. Knowledge-Based Systems, 2020, 188, 104977.	4.0	26
152	A Discrete Bat Algorithm for the Community Detection Problem. Lecture Notes in Computer Science, 2015, , 188-199.	1.0	25
153	Ensemble classifiers for biomedical data: Performance evaluation. , 2013, , .		24
154	Muzzle-Based Cattle Identification Using Speed up Robust Feature Approach. , 2015, , .		24
155	Parameter Optimization of Support Vector Machine Using Dragonfly Algorithm. Advances in Intelligent Systems and Computing, 2018, , 309-319.	0.5	24
156	Exploring New Vista of intelligent collaborative filtering: A restaurant recommendation paradigm. Journal of Computational Science, 2018, 27, 168-182.	1.5	24
157	Hybrid Rough Neural Network Model for Signature Recognition. Studies in Computational Intelligence, 2018, , 295-318.	0.7	24
158	Virtual Reality Technology for Blind and Visual Impaired People: Reviews and Recent Advances. Intelligent Systems Reference Library, 2012, , 363-385.	1.0	24
159	Deep Belief Network for clustering and classification of a continuous data. , 2010, , .		23
160	Hybrid system for lymphatic diseases diagnosis. , 2013, , .		23
161	An Automated Computer-aided Diagnosis System for Abdominal CT Liver Images. Procedia Computer Science, 2016, 90, 68-73.	1.2	23
162	Comparative Approach Between Singular Value Decomposition and Randomized Singular Value Decomposition-based Watermarking. Studies in Computational Intelligence, 2017, , 133-149.	0.7	23

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163	Secure Data Transmission in WSN: An Overview. Studies in Systems, Decision and Control, 2019, , 115-143.	0.8	23
164	Machine Learning Techniques for Anomalies Detection and Classification. Communications in Computer and Information Science, 2013, , 219-229.	0.4	23
165	A hybrid chameleon swarm algorithm with superiority of feasible solutions for optimal combined heat and power economic dispatch problem. Energy, 2022, 254, 124340.	4.5	23
166	Identification of Heart Valve Disease using Bijective Soft Sets Theory. International Journal of Rough Sets and Data Analysis, 2014, 1, 1-14.	1.0	22
167	Neutrosophic Sets and Fuzzy C-Means Clustering for Improving CT Liver Image Segmentation. Advances in Intelligent Systems and Computing, 2014, , 193-203.	0.5	22
168	An automated information system to ensure quality in higher education institutions. , 2016, , .		22
169	A Wheelchair Control System Using Human-Machine Interaction: Single-Modal and Multimodal Approaches. Journal of Intelligent Systems, 2019, 28, 115-132.	1.2	22
170	Binary Whale Optimization Algorithm and Binary Moth Flame Optimization with Clustering Algorithms for Clinical Breast Cancer Diagnoses. Journal of Classification, 2020, 37, 66-96.	1.2	22
171	Networks Community Detection Using Artificial Bee Colony Swarm Optimization. Advances in Intelligent Systems and Computing, 2014, , 229-239.	0.5	22
172	Remote Sensing Image Fusion Approach Based on Brovey and Wavelets Transforms. Advances in Intelligent Systems and Computing, 2014, , 311-321.	0.5	22
173	Rough neural intelligent approach for image classification: A case of patients with suspected breast cancer. International Journal of Hybrid Intelligent Systems, 2007, 3, 205-218.	0.9	21
174	Prostate boundary detection in ultrasound images using biologically-inspired spiking neural network. Applied Soft Computing Journal, 2011, 11, 2035-2041.	4.1	21
175	Optimized hierarchical routing technique for wireless sensors networks. Soft Computing, 2016, 20, 4549-4564.	2.1	21
176	Anomaly detection of satellite telemetry based on optimized extreme learning machine. Journal of Space Safety Engineering, 2019, 6, 291-298.	0.5	21
177	Hybrid TRS-PSO Clustering Approach for Web2.0 Social Tagging System. International Journal of Rough Sets and Data Analysis, 2015, 2, 22-37.	1.0	21
178	Deep Iris: Deep Learning for Gender Classification Through Iris Patterns. Acta Informatica Medica, 2019, 27, 96.	0.5	21
179	Water Pollution Detection System Based on Fish Gills as a Biomarker. Procedia Computer Science, 2015, 65, 601-611.	1.2	20
180	Towards an Automated Zebrafish-based Toxicity Test Model Using Machine Learning. Procedia Computer Science, 2015, 65, 643-651.	1.2	20

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181	Multimodal Biometric Personal Identification and Verification. <i>Studies in Computational Intelligence</i> , 2018, , 249-276.	0.7	20
182	A movable damped wave algorithm for solving global optimization problems. <i>Evolutionary Intelligence</i> , 2019, 12, 49-72.	2.3	20
183	A novel PSO algorithm for dynamic wireless sensor network multiobjective optimization problem. <i>Transactions on Emerging Telecommunications Technologies</i> , 2019, 30, e3523.	2.6	20
184	Predictive model for progressive salinization in a coastal aquifer using artificial intelligence and hydrogeochemical techniques: a case study of the Nile Delta aquifer, Egypt. <i>Environmental Science and Pollution Research</i> , 2022, 29, 9318-9340.	2.7	20
185	Intelligent Algorithms for Optimal Selection of Virtual Machine in Cloud Environment, Towards Enhance Healthcare Services. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 289-298.	0.5	20
186	Multi-class SVM Based Classification Approach for Tomato Ripeness. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 175-186.	0.5	19
187	Automatic liver parenchyma segmentation system from abdominal CT scans using hybrid techniques. <i>International Journal of Biomedical Engineering and Technology</i> , 2015, 17, 148.	0.2	19
188	Epileptic detection based on whale optimization enhanced support vector machine. <i>Journal of Information and Optimization Sciences</i> , 2019, 40, 699-723.	0.2	19
189	Vision Tracking: A Survey of the State-of-the-Art. <i>SN Computer Science</i> , 2020, 1, 1.	2.3	19
190	Evaluating the Degree of Trust Under Context Sensitive Relational Database Hierarchy Using Hybrid Intelligent Approach. <i>International Journal of Rough Sets and Data Analysis</i> , 2015, 2, 1-21.	1.0	19
191	Extraction and application of deformation-based feature in medical images. <i>Neurocomputing</i> , 2013, 120, 177-184.	3.5	18
192	Multi-layer hybrid machine learning techniques for anomalies detection and classification approach. , 2013, , .		18
193	Fusion of multi-spectral and panchromatic satellite images using principal component analysis and fuzzy logic. , 2014, , .		18
194	Grey wolf optimization for one-against-one multi-class support vector machines. , 2015, , .		18
195	Plant Identification: Two Dimensional-Based Vs. One Dimensional-Based Feature Extraction Methods. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 375-385.	0.5	18
196	Grey Wolves Optimizer-based localization approach in WSNs. , 2015, , .		18
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