Janmenjoy Nayak

List of Publications by Year
in descending order

105 papers	2,098 citations	304368 22 h-index	288905 40 g-index
114 all docs	114 docs citations	114 times ranked	1605 citing authors

#	Article	IF	Citations
1	Industrial Internet of Things and its Applications in Industry 4.0: State of The Art. Computer Communications, 2021, 166, 125-139.	3.1	197
2	Role of intelligent computing in COVID-19 prognosis: A state-of-the-art review. Chaos, Solitons and Fractals, 2020, 138, 109947.	2.5	142
3	Fuzzy C-Means (FCM) Clustering Algorithm: A Decade Review from 2000 to 2014. Smart Innovation, Systems and Technologies, 2015, , 133-149.	0.5	108
4	A Comprehensive Survey on Support Vector Machine in Data Mining Tasks: Applications & Challenges. International Journal of Database Theory and Application, 2015, 8, 169-186.	0.2	104
5	Intelligent system for COVID-19 prognosis: a state-of-the-art survey. Applied Intelligence, 2021, 51, 2908-2938.	3.3	83
6	An Improved Moth-Flame Optimization algorithm with hybrid search phase. Knowledge-Based Systems, 2020, 191, 105277.	4.0	78
7	Deep learning in electrical utility industry: A comprehensive review of a decade of research. Engineering Applications of Artificial Intelligence, 2020, 96, 104000.	4.3	69
8	Intelligent food processing: Journey from artificial neural network to deep learning. Computer Science Review, 2020, 38, 100297.	10.2	63
9	A novel nature inspired firefly algorithm with higher order neural network: Performance analysis. Engineering Science and Technology, an International Journal, 2016, 19, 197-211.	2.0	53
10	Neural network and fuzzy system for the tuning of Gravitational Search Algorithm parameters. Expert Systems With Applications, 2018, 102, 234-244.	4.4	49
11	Advancement from neural networks to deep learning in software effort estimation: Perspective of two decades. Computer Science Review, 2020, 38, 100288.	10.2	48
12	Deep neural network based anomaly detection in Internet of Things network traffic tracking for the applications of future smart cities. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4121.	2.6	46
13	A Novel PSO Based Back Propagation Learning-MLP (PSO-BP-MLP) for Classification. Smart Innovation, Systems and Technologies, 2015, , 461-471.	0.5	45
14	A novel Chemical Reaction Optimization based Higher order Neural Network (CRO-HONN) for nonlinear classification. Ain Shams Engineering Journal, 2015, 6, 1069-1091.	3.5	37
15	Hybrid Clustering using Elitist Teaching Learning-Based Optimization. International Journal of Rough Sets and Data Analysis, 2016, 3, 1-19.	1.0	37
16	Improving exploration and exploitation via a Hyperbolic Gravitational Search Algorithm. Knowledge-Based Systems, 2020, 193, 105404.	4.0	37
17	A self adaptive harmony search based functional link higher order ANN for non-linear data classification. Neurocomputing, 2016, 179, 69-87.	3.5	36
18	Wavelet Transform and Deep Convolutional Neural Network-Based Smart Healthcare System for Gastrointestinal Disease Detection. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 212-228.	2.2	31

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19	Hybrid chemical reaction based metaheuristic with fuzzy c-means algorithm for optimal cluster analysis. Expert Systems With Applications, 2017, 79, 282-295.	4.4	29
20	Hyper-parameter tuned light gradient boosting machine using memetic firefly algorithm for hand gesture recognition. Applied Soft Computing Journal, 2021, 107, 107478.	4.1	26
21	Extreme learning machine and bayesian optimization-driven intelligent framework for IoMT cyber-attack detection. Journal of Supercomputing, 2022, 78, 14866-14891.	2.4	26
22	Nature Inspired Optimizations in Cloud Computing: Applications and Challenges. Studies in Big Data, 2018, , 1-26.	0.8	24
23	Bootstrap aggregation ensemble learning-based reliable approach for software defect prediction by using characterized code feature. Innovations in Systems and Software Engineering, 2021, 17, 355-379.	1.6	24
24	Firefly Algorithm in Biomedical and Health Care: Advances, Issues and Challenges. SN Computer Science, 2020, 1, 311.	2.3	21
25	CatBoost Ensemble Approach for Diabetes Risk Prediction at Early Stages. , 2021, , .		21
26	A hybrid elicit teaching learning based optimization with fuzzy c-means (ETLBO-FCM) algorithm for data clustering. Ain Shams Engineering Journal, 2018, 9, 379-393.	3.5	20
27	Fuzzy and Real-Coded Chemical Reaction Optimization for Intrusion Detection in Industrial Big Data Environment. IEEE Transactions on Industrial Informatics, 2021, 17, 4298-4307.	7.2	20
28	Exact greedy algorithm based split finding approachÂfor intrusion detection in fog-enabled IoT environment. Journal of Information Security and Applications, 2021, 60, 102866.	1.8	20
29	Multi-class Skin Disease Classification Using Transfer Learning Model. International Journal on Artificial Intelligence Tools, 2022, 31, .	0.7	19
30	A Graph Based Clustering Approach for Relation Extraction From Crime Data. IEEE Access, 2019, 7, 101269-101282.	2.6	18
31	Graph based feature selection investigating boundary region of rough set for language identification. Expert Systems With Applications, 2020, 158, 113575.	4.4	18
32	An Improved Firefly Fuzzy C-Means (FAFCM) Algorithm for Clustering Real World Data Sets. Smart Innovation, Systems and Technologies, 2014, , 339-348.	0.5	18
33	An Unsupervised Fuzzy Clustering Approach for Early Screening of COVID-19 From Radiological Images. IEEE Transactions on Fuzzy Systems, 2022, 30, 2902-2914.	6.5	17
34	A hybrid PSO-GA based Pi sigma neural network (PSNN) with standard back propagation gradient descent learning for classification. , 2014, , .		16
35	A Novel FLANN with a Hybrid PSO and GA Based Gradient Descent Learning for Classification. Advances in Intelligent Systems and Computing, 2015, , 745-754.	0.5	16
36	License plate recognition using neural architecture search for edge devices. International Journal of Intelligent Systems, 2022, 37, 10211-10248.	3.3	15

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37	Fusion of intelligent learning for COVID-19: A state-of-the-art review and analysis on real medical data. Neurocomputing, 2021, 457, 40-66.	3.5	15
38	A Honey Bee Mating Optimization Based Gradient Descent Learning â€" FLANN (HBMO-GDL-FLANN) for Classification. Advances in Intelligent Systems and Computing, 2015, , 211-220.	0.5	15
39	Covid CT-net: A deep learning framework for COVID-19 prognosis using CT images. Journal of Interdisciplinary Mathematics, 2021, 24, 327-352.	0.4	14
40	Significance of deep learning for Covid-19: state-of-the-art review. Research on Biomedical Engineering, 2022, 38, 243-266.	1.5	14
41	Evolutionary Improved Swarm-Based Hybrid K-Means Algorithm for Cluster Analysis. Advances in Intelligent Systems and Computing, 2016, , 343-352.	0.5	14
42	A higher order evolutionary Jordan Pi-Sigma Neural Network with gradient descent learning for classification. , 2014, , .		13
43	A pragmatic ensemble learning approach for effective software effort estimation. Innovations in Systems and Software Engineering, 2022, 18, 283-299.	1.6	13
44	Multiplicative Holts Winter Model for Trend Analysis and Forecasting of COVID-19 Spread in India. SN Computer Science, 2021, 2, 416.	2.3	13
45	Directive clustering contrast-based multi-modality medical image fusion for smart healthcare system. Network Modeling Analysis in Health Informatics and Bioinformatics, 2022, 11, 1.	1.2	13
46	Elitist teachingâ€"learning-based optimization (ETLBO) with higher-order Jordan Pi-sigma neural network: a comparative performance analysis. Neural Computing and Applications, 2018, 30, 1445-1468.	3.2	12
47	Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images. Journal of the Institution of Engineers (India): Series B, 2021, 102, 1177-1190.	1.3	12
48	Key moment extraction for designing an agglomerative clustering algorithm-based video summarization framework. Neural Computing and Applications, 2023, 35, 4881-4902.	3.2	12
49	An Automated Lightweight Deep Neural Network for Diagnosis of COVID-19 from Chest X-ray Images. Arabian Journal for Science and Engineering, 2023, 48, 11085-11102.	1.7	12
50	Follower Link Prediction Using the XGBoost Classification Model with Multiple Graph Features. Wireless Personal Communications, 2022, 127, 695-714.	1.8	11
51	A Harmony Search Based Gradient Descent Learning-FLANN (HS-GDL-FLANN) for Classification. Smart Innovation, Systems and Technologies, 2015, , 525-539.	0.5	10
52	A Novel Honey-Bees Mating Optimization Approach with Higher order Neural Network for Classification. Journal of Classification, 2018, 35, 511-548.	1.2	10
53	A Global-best Harmony Search based Gradient Descent Learning FLANN (GbHS-GDL-FLANN) for data classification. Egyptian Informatics Journal, 2016, 17, 57-87.	4.4	9
54	A TLBO based gradient descent learning-functional link higher order ANN: An efficient model for learning from non-linear data. Journal of King Saud University - Computer and Information Sciences, 2018, 30, 120-139.	2.7	9

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55	Feature selection generating directed rough-spanning tree for crime pattern analysis. Neural Computing and Applications, 2020, 32, 7623-7639.	3.2	9
56	An Improved Swarm Based Hybrid K-Means Clustering for Optimal Cluster Centers. Advances in Intelligent Systems and Computing, 2015, , 545-553.	0.5	9
57	A power quality detection and classification algorithm based on FDST and hyper-parameter tuned light-GBM using memetic firefly algorithm. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110260.	2.5	9
58	An efficient FLANN model with CRO-based gradient descent learning for classification. International Journal of Business Information Systems, 2016, 21, 73.	0.2	8
59	A Survey on Teaching–Learning-Based Optimization Algorithm: Short Journey from 2011 to 2017. Advances in Intelligent Systems and Computing, 2019, , 739-758.	0.5	8
60	Model based IoT security framework using multiclass adaptive boosting with SMOTE. Security and Privacy, 2020, 3, e112.	1.9	8
61	SEM: Stacking Ensemble Meta-Learning for IOT Security Framework. Arabian Journal for Science and Engineering, 2021, 46, 3531-3548.	1.7	8
62	Deep belief network-based probabilistic generative model for detection of robotic manipulator failure execution. Soft Computing, 2023, 27, 363-375.	2.1	8
63	A Comprehensive Review and Performance Analysis of Firefly Algorithm for Artificial Neural Networks. Studies in Computational Intelligence, 2020, , 137-159.	0.7	8
64	Socio-economic factor analysis for sustainable and smart precision agriculture: An ensemble learning approach. Computer Communications, 2022, 182, 72-87.	3.1	8
65	A rough set theory and deep learning-based predictive system for gender recognition using audio speech. Soft Computing, 0, , .	2.1	8
66	Particle Swarm Optimization Based Higher Order Neural Network for Classification. Smart Innovation, Systems and Technologies, 2015, , 401-414.	0.5	7
67	Solving nonlinear classification problems with black hole optimisation and higher order Jordan Pi-sigma neural network: a novel approach. International Journal of Computational Systems Engineering, 2016, 2, 236.	0.2	7
68	Group incremental adaptive clustering based on neural network and rough set theory for crime report categorization. Neurocomputing, 2021, 459, 465-480.	3.5	7
69	Deep Recurrent Neural Network (Deep-RNN) for Classification of Nonlinear Data. Advances in Intelligent Systems and Computing, 2020, , 207-215.	0.5	7
70	Character Recognition Using Firefly Based Back Propagation Neural Network. Smart Innovation, Systems and Technologies, 2015, , 151-164.	0.5	6
71	Optimizing a Higher Order Neural Network Through Teaching Learning Based Optimization Algorithm. Advances in Intelligent Systems and Computing, 2016, , 57-71.	0.5	6
72	DTCDWT-SMOTE-XGBoost-Based Islanding Detection for Distributed Generation Systems: An Approach of Class-Imbalanced Issue. IEEE Systems Journal, 2022, 16, 2008-2019.	2.9	6

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73	Probabilistic Neural Network-based Model for Identification of Parkinson's Disease by using Voice Profile and Personal Data. Arabian Journal for Science and Engineering, 2021, 46, 3383-3407.	1.7	6
74	Central hubs prediction for bio networks by directed hypergraph - GA with validation to COVID-19 PPI. Pattern Recognition Letters, 2022, 153, 246-253.	2.6	6
75	A framework for crime data analysis using relationship among named entities. Neural Computing and Applications, 2020, 32, 7671-7689.	3.2	5
76	Generation of overlapping clusters constructing suitable graph for crime report analysis. Future Generation Computer Systems, 2021, 118, 339-357.	4.9	5
77	Multistage classification of oral histopathological images using improved residual network. Mathematical Biosciences and Engineering, 2021, 19, 1909-1925.	1.0	5
78	Improving Facial Emotion Recognition Using Residual Autoencoder Coupled Affinity Based Overlapping Reduction. Mathematics, 2022, 10, 406.	1.1	5
79	GA Based Polynomial Neural Network for Data Classification. , 2014, , .		4
80	An Efficient PSO-GA Based Back Propagation Learning-MLP (PSO-GA-BP-MLP) for Classification. Smart Innovation, Systems and Technologies, 2015, , 517-527.	0.5	4
81	Non-Linear Classification using Higher Order Pi-Sigma Neural Network and Improved Particle Swarm Optimization: An Experimental Analysis. Advances in Intelligent Systems and Computing, 2016, , 507-518.	0.5	4
82	Cluster Analysis Using Firefly-Based K-means Algorithm: A Combined Approach. Advances in Intelligent Systems and Computing, 2017, , 55-64.	0.5	4
83	Chemical Reaction Optimization: A Survey with Application and Challenges. Advances in Intelligent Systems and Computing, 2019, , 507-524.	0.5	4
84	Ensemble summarization of bio-medical articles integrating clustering and multi-objective evolutionary algorithms. Applied Soft Computing Journal, 2021, 106, 107347.	4.1	4
85	Applications and Advancements of Firefly Algorithm in Classification: An Analytical Perspective. Advances in Intelligent Systems and Computing, 2020, , 1011-1028.	0.5	4
86	A Hybrid Model of FLANN and Firefly Algorithm for Classification. Advances in Computational Intelligence and Robotics Book Series, 2016, , 491-522.	0.4	4
87	XGBoost regression model-based electricity tariff plan recommendation in smart grid environment. International Journal of Innovative Computing and Applications, 2022, 13, 79.	0.2	4
88	Evolutionary Algorithm based Ensemble Extractive Summarization for Developing Smart Medical System. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 229-259.	2.2	3
89	Fuzzy Clustering with Improved Swarm Optimization and Genetic Algorithm: Hybrid Approach. Advances in Intelligent Systems and Computing, 2017, , 237-247.	0.5	3
90	Crow Search Optimization-Based Hybrid Meta-heuristic for Classification: A Novel Approach. Advances in Intelligent Systems and Computing, 2018, , 775-783.	0.5	2

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91	Perturbation Based Efficient Crow Search Optimized FLANN for System Identification: A Novel Approach. Advances in Intelligent Systems and Computing, 2018, , 204-212.	0.5	2
92	Pi-Sigma Neural Network: Survey of a Decade Progress. Advances in Intelligent Systems and Computing, 2020, , 429-441.	0.5	2
93	Higher order ANN parameter optimization using hybrid opposition-elitism based metaheuristic. Evolutionary Intelligence, 2022, 15, 2055-2075.	2.3	2
94	Correlation-based modified long short-term memory network approach for software defect prediction. Evolving Systems, 2022, 13, 869-887.	2.4	2
95	Kidney-Inspired Algorithm and Fuzzy Clustering for Biomedical Data Analysis. , 2019, , 269-281.		1
96	Modified pixel level snake using bottom hat transformation for evolution of retinal vasculature map. Mathematical Biosciences and Engineering, 2021, 18, 5737-5757.	1.0	1
97	Nature inspired optimization and its application to engineering. Evolutionary Intelligence, 2021, 14, 1-3.	2.3	1
98	Optimal Fuzzy Cluster Partitioning by Crow Search Meta-Heuristic for Biomedical Data Analysis. International Journal of Applied Metaheuristic Computing, 2021, 12, 49-66.	0.5	1
99	Deep DenseNet and ResNet Approach for COVID-19 Prognosis: Experiments on Real CT Images. Advances in Intelligent Systems and Computing, 2022, , 731-747.	0.5	1
100	An ensemble artificial intelligence<scp>â€enabled MIoT</scp> for automated diagnosis of malaria parasite. Expert Systems, 2022, 39, .	2.9	1
101	FLANN + BHO. International Journal of Rough Sets and Data Analysis, 2018, 5, 13-33.	1.0	0
102	Special issue on â€œSoft computing techniques: applications and challengesâ€•neural computing and applications. Neural Computing and Applications, 2020, 32, 7585-7585.	3.2	0
103	Solving nonlinear classification problems with black hole optimisation and higher order Jordan Pi-sigma neural network: a novel approach. International Journal of Computational Systems Engineering, 2016, 2, 236.	0.2	0
104	Spider monkey optimisation: state of the art and advances. International Journal of Swarm Intelligence, 2019, 4, 175.	0.2	0
105	Applications and Advancements of Nature-Inspired Optimization Algorithms in Data Clustering: A Detailed Analysis. Advances in Intelligent Systems and Computing, 2020, , 731-750.	0.5	0