

Dr Himansu Sekhar Behera

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

2,263
citations

304368

22
h-index

264894

42
g-index

136
all docs

136
docs citations

136
times ranked

1745
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybridization of an improved particle swarm optimization and gravitational search algorithm for multi-robot path planning. <i>Swarm and Evolutionary Computation</i> , 2016, 28, 14-28.	4.5	210
2	Role of intelligent computing in COVID-19 prognosis: A state-of-the-art review. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109947.	2.5	142
3	A hybrid ETS-ANN model for time series forecasting. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 66, 49-59.	4.3	133
4	Fuzzy C-Means (FCM) Clustering Algorithm: A Decade Review from 2000 to 2014. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 133-149.	0.5	108
5	A hybrid improved PSO-DV algorithm for multi-robot path planning in a clutter environment. <i>Neurocomputing</i> , 2016, 207, 735-753.	3.5	106
6	Power quality time series data mining using S-transform and fuzzy expert system. <i>Applied Soft Computing Journal</i> , 2010, 10, 945-955.	4.1	98
7	Classification of Diabetes Mellitus Disease (DMD): A Data Mining (DM) Approach. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 539-549.	0.5	60
8	Classification of power quality data using decision tree and chemotactic differential evolution based fuzzy clustering. <i>Swarm and Evolutionary Computation</i> , 2012, 4, 12-24.	4.5	54
9	A novel nature inspired firefly algorithm with higher order neural network: Performance analysis. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 197-211.	2.0	53
10	A study on leading machine learning techniques for high order fuzzy time series forecasting. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 87, 103245.	4.3	52
11	Intelligent-based multi-robot path planning inspired by improved classical Q-learning and improved particle swarm optimization with perturbed velocity. <i>Engineering Science and Technology, an International Journal</i> , 2016, 19, 651-669.	2.0	48
12	Advancement from neural networks to deep learning in software effort estimation: Perspective of two decades. <i>Computer Science Review</i> , 2020, 38, 100288.	10.2	48
13	Deep neural network based anomaly detection in Internet of Things network traffic tracking for the applications of future smart cities. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021, 32, e4121.	2.6	46
14	A Novel PSO Based Back Propagation Learning-MLP (PSO-BP-MLP) for Classification. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 461-471.	0.5	45
15	ACFLN: artificial chemical functional link network for prediction of stock market index. <i>Evolving Systems</i> , 2019, 10, 567-592.	2.4	44
16	A novel probabilistic intuitionistic fuzzy set based model for high order fuzzy time series forecasting. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 99, 104136.	4.3	41
17	A novel Chemical Reaction Optimization based Higher order Neural Network (CRO-HONN) for nonlinear classification. <i>Ain Shams Engineering Journal</i> , 2015, 6, 1069-1091.	3.5	37
18	Artificial chemical reaction optimization of neural networks for efficient prediction of stock market indices. <i>Ain Shams Engineering Journal</i> , 2017, 8, 371-390.	3.5	37

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19	A self adaptive harmony search based functional link higher order ANN for non-linear data classification. <i>Neurocomputing</i> , 2016, 179, 69-87.	3.5	36
20	Medical disease analysis using Neuro-Fuzzy with Feature Extraction Model for classification. <i>Informatics in Medicine Unlocked</i> , 2020, 18, 100288.	1.9	35
21	Hybrid chemical reaction based metaheuristic with fuzzy c-means algorithm for optimal cluster analysis. <i>Expert Systems With Applications</i> , 2017, 79, 282-295.	4.4	29
22	Index prediction with neuro-genetic hybrid network: A comparative analysis of performance. , 2012, , .		28
23	An Experimental Analysis of Machine Learning Classification Algorithms on Biomedical Data. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 525-539.	0.3	26
24	Bootstrap aggregation ensemble learning-based reliable approach for software defect prediction by using characterized code feature. <i>Innovations in Systems and Software Engineering</i> , 2021, 17, 355-379.	1.6	24
25	High-Order Fuzzy Time Series Forecasting by Using Membership Values Along with Data and Support Vector Machine. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 10311-10325.	1.7	22
26	An Adaptive Second Order Neural Network with Genetic-Algorithm-based Training (ASONN-GA) to Forecast the Closing Prices of the Stock Market. , 2020, , 238-256.		21
27	A hybrid elicit teaching learning based optimization with fuzzy c-means (ETLBO-FCM) algorithm for data clustering. <i>Ain Shams Engineering Journal</i> , 2018, 9, 379-393.	3.5	20
28	Exact greedy algorithm based split finding approach for intrusion detection in fog-enabled IoT environment. <i>Journal of Information Security and Applications</i> , 2021, 60, 102866.	1.8	20
29	Optimal Selection of Features Using Artificial Electric Field Algorithm for Classification. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 8355-8369.	1.7	18
30	An Improved Firefly Fuzzy C-Means (FAFCM) Algorithm for Clustering Real World Data Sets. <i>Smart Innovation, Systems and Technologies</i> , 2014, , 339-348.	0.5	18
31	Time sequence data mining using time frequency analysis and soft computing techniques. <i>Applied Soft Computing Journal</i> , 2008, 8, 202-215.	4.1	17
32	A hybrid PSO-GA based Pi sigma neural network (PSNN) with standard back propagation gradient descent learning for classification. , 2014, , .		16
33	A Novel FLANN with a Hybrid PSO and GA Based Gradient Descent Learning for Classification. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 745-754.	0.5	16
34	Efficient financial time series prediction with evolutionary virtual data position exploration. <i>Neural Computing and Applications</i> , 2019, 31, 1053-1074.	3.2	16
35	A Hybrid Neuro-Fuzzy and Feature Reduction Model for Classification. <i>Advances in Fuzzy Systems</i> , 2020, 2020, 1-15.	0.6	15
36	A Honey Bee Mating Optimization Based Gradient Descent Learning FLANN (HBMO-GDL-FLANN) for Classification. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 211-220.	0.5	15

#	ARTICLE	IF	CITATIONS
37	Artificial chemical reaction optimization based neural net for virtual data position exploration for efficient financial time series forecasting. <i>Ain Shams Engineering Journal</i> , 2018, 9, 1731-1744.	3.5	14
38	Covid CT-net: A deep learning framework for COVID-19 prognosis using CT images. <i>Journal of Interdisciplinary Mathematics</i> , 2021, 24, 327-352.	0.4	14
39	Evolutionary Improved Swarm-Based Hybrid K-Means Algorithm for Cluster Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 343-352.	0.5	14
40	A higher order evolutionary Jordan Pi-Sigma Neural Network with gradient descent learning for classification. , 2014, , .		13
41	A pragmatic ensemble learning approach for effective software effort estimation. <i>Innovations in Systems and Software Engineering</i> , 2022, 18, 283-299.	1.6	13
42	Multiplicative Holts Winter Model for Trend Analysis and Forecasting of COVID-19 Spread in India. <i>SN Computer Science</i> , 2021, 2, 416.	2.3	13
43	Time Series Forecasting using Evolutionary Neural Network. <i>International Journal of Computer Applications</i> , 2013, 75, 13-17.	0.2	13
44	Elitist teachingâ€learning-based optimization (ETLBO) with higher-order Jordan Pi-sigma neural network: a comparative performance analysis. <i>Neural Computing and Applications</i> , 2018, 30, 1445-1468.	3.2	12
45	Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images. <i>Journal of the Institution of Engineers (India): Series B</i> , 2021, 102, 1177-1190.	1.3	12
46	An improved particle swarm optimization for multi-robot path planning. , 2016, , .		11
47	A Novel Hybrid Differential Evolution-PSNN for Fuzzy Time Series Forecasting. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 675-687.	0.5	11
48	A Harmony Search Based Gradient Descent Learning-FLANN (HS-GDL-FLANN) for Classification. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 525-539.	0.5	10
49	Fluctuation prediction of stock market index by adaptive evolutionary higher order neural networks. <i>International Journal of Swarm Intelligence</i> , 2016, 2, 229.	0.2	10
50	Disease Classification Using Linguistic Neuro-Fuzzy Model. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 45-53.	0.5	10
51	A Multi-step-Ahead Fuzzy Time Series Forecasting by Using Hybrid Chemical Reaction Optimization with Pi-Sigma Higher-Order Neural Network. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 1029-1041.	0.5	10
52	Forecasting foreign exchange rates using CRO based different variants of FLANN and performance analysis. <i>International Journal of Computational Systems Engineering</i> , 2016, 2, 190.	0.2	9
53	An intelligent multi-robot path planning in a dynamic environment using improved gravitational search algorithm. <i>International Journal of Automation and Computing</i> , 2021, 18, 1032-1044.	4.5	9
54	A Global-best Harmony Search based Gradient Descent Learning FLANN (GbHS-GDL-FLANN) for data classification. <i>Egyptian Informatics Journal</i> , 2016, 17, 57-87.	4.4	9

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55	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
56	Estimating Software Effort Using Neural Network: An Experimental Investigation. Advances in Intelligent Systems and Computing, 2020, , 165-180.	0.5	9
57	An Improved Swarm Based Hybrid K-Means Clustering for Optimal Cluster Centers. Advances in Intelligent Systems and Computing, 2015, , 545-553.	0.5	9
58	Evaluation of normalization methods on neuro-genetic models for stock index forecasting. , 2012, , .		8
59	Hybridizing chemical reaction optimization and Artificial Neural Network for stock future index forecasting. , 2013, , .		8
60	A Pi-Sigma Higher Order Neural Network for Stock Index Forecasting. Smart Innovation, Systems and Technologies, 2015, , 311-319.	0.5	8
61	A Modified Real Time A* Algorithm and Its Performance Analysis for Improved Path Planning of Mobile Robot. Smart Innovation, Systems and Technologies, 2015, , 221-234.	0.5	8
62	An efficient FLANN model with CRO-based gradient descent learning for classification. International Journal of Business Information Systems, 2016, 21, 73.	0.2	8
63	A Survey on Teachingâ€“Learning-Based Optimization Algorithm: Short Journey from 2011 to 2017. Advances in Intelligent Systems and Computing, 2019, , 739-758.	0.5	8
64	Time Series Forecasting Using Differential Evolution-Based ANN Modelling Scheme. Arabian Journal for Science and Engineering, 2020, 45, 11129-11146.	1.7	8
65	Simple polymerase chain reaction assay to differentiate between fungal and <i>Pythium insidiosum</i> keratitis. Clinical and Experimental Ophthalmology, 2021, 49, 630-632.	1.3	8
66	On Developing and Performance Evaluation of Adaptive Second Order Neural Network With GA-Based Training (ASONN-GA) for Financial Time Series Prediction. Advances in Data Mining and Database Management Book Series, 2018, , 231-263.	0.4	8
67	Particle Swarm Optimization Based Higher Order Neural Network for Classification. Smart Innovation, Systems and Technologies, 2015, , 401-414.	0.5	7
68	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
69	Role of Soft Computing Techniques in Software Effort Estimation: An Analytical Study. Advances in Intelligent Systems and Computing, 2020, , 807-831.	0.5	7
70	Firefly based ridge polynomial neural network for classification. , 2014, , .		6
71	An improved gravitational search algorithm and its performance analysis for multi-robot path planning. , 2015, , .		6
72	Character Recognition Using Firefly Based Back Propagation Neural Network. Smart Innovation, Systems and Technologies, 2015, , 151-164.	0.5	6

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73	A CRO Based FLANN for Forecasting Foreign Exchange Rates Using FLANN. Smart Innovation, Systems and Technologies, 2015, , 647-664.	0.5	6
74	Efficient forecasting of financial time-series data with virtual adaptive neuro-fuzzy inference system. International Journal of Business Forecasting and Market Intelligence, 2016, 2, 379.	0.1	6
75	Optimizing a Higher Order Neural Network Through Teaching Learning Based Optimization Algorithm. Advances in Intelligent Systems and Computing, 2016, , 57-71.	0.5	6
76	A Non-Probabilistic Neutrosophic Entropy-Based Method For High-Order Fuzzy Time-Series Forecasting. Arabian Journal for Science and Engineering, 0, , 1.	1.7	6
77	A Fog-Based Intelligent Secured IoMT Framework for Early Diabetes Prediction. Internet of Things, 2022, , 199-218.	1.3	6
78	A novel chemical reaction-based clustering and its performance analysis. International Journal of Business Intelligence and Data Mining, 2013, 8, 184.	0.2	5
79	Hybrid Gravitational Search and Particle Swarm Based Fuzzy MLP for Medical Data Classification. Smart Innovation, Systems and Technologies, 2015, , 35-43.	0.5	5
80	Comparison of Performance of Different Functions in Functional Link Artificial Neural Network: A Case Study on Stock Index Forecasting. Smart Innovation, Systems and Technologies, 2015, , 479-487.	0.5	5
81	Higher Order Neural Network and Its Applications: A Comprehensive Survey. Advances in Intelligent Systems and Computing, 2018, , 695-709.	0.5	5
82	A Higher Order Neuro-Fuzzy Time Series Forecasting Model Based on Un-equal Length of Interval. Learning and Analytics in Intelligent Systems, 2020, , 34-45.	0.5	5
83	Fuzzy Time Series Forecasting: A Survey. Advances in Intelligent Systems and Computing, 2020, , 641-651.	0.5	5
84	GA Based Polynomial Neural Network for Data Classification. , 2014, , .		4
85	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
86	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
87	Cluster Analysis Using Firefly-Based K-means Algorithm: A Combined Approach. Advances in Intelligent Systems and Computing, 2017, , 55-64.	0.5	4
88	Exploration and incorporation of virtual data positions for efficient forecasting of financial time series. International Journal of Industrial and Systems Engineering, 2017, 26, 42.	0.1	4
89	Chemical Reaction Optimization: A Survey with Application and Challenges. Advances in Intelligent Systems and Computing, 2019, , 507-524.	0.5	4
90	A Hybrid Model of FLANN and Firefly Algorithm for Classification. Advances in Computational Intelligence and Robotics Book Series, 2016, , 491-522.	0.4	4

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91	Adaptive Hybrid Higher Order Neural Networks for Prediction of Stock Market Behavior. Advances in Computational Intelligence and Robotics Book Series, 2016, , 174-191.	0.4	4
92	Adaptive Hybrid Higher Order Neural Networks for Prediction of Stock Market Behavior. , 0, , 553-570.		4
93	A novel hybrid approach for real world data clustering algorithm based on fuzzy C-means and firefly algorithm. International Journal of Fuzzy Computation and Modelling, 2015, 1, 431.	0.1	3
94	Evolving Low Complex Higher Order Neural Network Based Classifiers for Medical Data Classification. Advances in Intelligent Systems and Computing, 2016, , 415-425.	0.5	3
95	A comprehensive study on evolutionary algorithm-based multilayer perceptron for real-world data classification under uncertainty. Expert Systems, 2019, 36, e12327.	2.9	3
96	Multi-Step-Ahead Exchange Rate Forecasting For South Asian Countries Using Multi-Verse Optimized Multiplicative Functional Link Neural Networks. Karbala International Journal of Modern Science, 2021, 7, .	0.5	3
97	Fuzzy Clustering with Improved Swarm Optimization and Genetic Algorithm: Hybrid Approach. Advances in Intelligent Systems and Computing, 2017, , 237-247.	0.5	3
98	Chemical reaction optimisation: a hybrid technique applied to functional link artificial neural networks with least mean square learning for foreign exchange rates forecasting. International Journal of Swarm Intelligence, 2016, 2, 254.	0.2	3
99	Fluctuation prediction of stock market index by adaptive evolutionary higher order neural networks. International Journal of Swarm Intelligence, 2016, 2, 229.	0.2	3
100	Cooperative optimization for efficient financial time series forecasting. , 2014, , .		2
101	An Integrated Clustering Framework Using Optimized K-means with Firefly and Canopies. Smart Innovation, Systems and Technologies, 2015, , 333-343.	0.5	2
102	A hybrid CRO-based FLANN for financial stock market forecasting. International Journal of Data Analysis Techniques and Strategies, 2016, 8, 261.	0.2	2
103	A Fuzzy Filter Based Hybrid ARIMA-ANN Model for Time Series Forecasting. Advances in Intelligent Systems and Computing, 2018, , 592-601.	0.5	2
104	An Adaptive Fuzzy Filter-Based Hybrid ARIMA-HONN Model for Time Series Forecasting. Advances in Intelligent Systems and Computing, 2019, , 841-850.	0.5	2
105	Pi-Sigma Neural Network: Survey of a Decade Progress. Advances in Intelligent Systems and Computing, 2020, , 429-441.	0.5	2
106	Forecasting foreign exchange rates using CRO based different variants of FLANN and performance analysis. International Journal of Computational Systems Engineering, 2016, 2, 190.	0.2	2
107	Towards Designing and Performance Analysis of Evolving Higher Order Neural Networks for Modeling and Forecasting Exchange Rate Time Series Data. Lecture Notes in Electrical Engineering, 2020, , 258-268.	0.3	2
108	Improving Performance of Higher Order Neural Network using Artificial Chemical Reaction Optimization. , 0, , 1753-1780.		2

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109	Correlation-based modified long short-term memory network approach for software defect prediction. <i>Evolving Systems</i> , 2022, 13, 869-887.	2.4	2
110	Robust signal processing compression for clustering of speech waveform and image spectrum. , 2015, , .		1
111	A modified fruit fly optimisation for classification of financial distress using FLANN. <i>International Journal of Data Science</i> , 2017, 2, 155.	0.1	1
112	Time Series Forecasting using a hybrid Jaya-FLANN model. , 2018, , .		1
113	Escalation of Prediction Accuracy With Virtual Data. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018, , 433-461.	0.4	1
114	Deep DenseNet and ResNet Approach for COVID-19 Prognosis: Experiments on Real CT Images. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 731-747.	0.5	1
115	Extreme Learning With Metaheuristic Optimization for Exchange Rate Forecasting. <i>International Journal of Swarm Intelligence Research</i> , 2022, 13, 1-25.	0.5	1
116	Comparative performance analysis of proposed variants of list accessing algorithms using centralized cost model with doublylinked list. , 2010, , .		0
117	Chemical reaction optimisation: a hybrid technique applied to functional link artificial neural networks with least mean square learning for foreign exchange rates forecasting. <i>International Journal of Swarm Intelligence</i> , 2016, 2, 254.	0.2	0
118	An improved harmony search-based functional link higher order ANN for nonlinear data classification. <i>International Journal of Intelligent Systems Design and Computing</i> , 2017, 1, 286.	0.3	0
119	HOG Based Radial Basis Function Network for Brain MR Image Classification. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 45-56.	0.5	0
120	Hybrid CRO Based FLANN for Financial Credit Risk Forecasting. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 57-65.	0.5	0
121	A hybrid CRO-based FLANN for financial stock market forecasting. <i>International Journal of Data Analysis Techniques and Strategies</i> , 2016, 8, 261.	0.2	0
122	Solving nonlinear classification problems with black hole optimisation and higher order Jordan Pi-sigma neural network: a novel approach. <i>International Journal of Computational Systems Engineering</i> , 2016, 2, 236.	0.2	0
123	Efficient forecasting of financial time-series data with virtual adaptive neuro-fuzzy inference system. <i>International Journal of Business Forecasting and Market Intelligence</i> , 2016, 2, 379.	0.1	0
124	An improved harmony search-based functional link higher order ANN for nonlinear data classification. <i>International Journal of Intelligent Systems Design and Computing</i> , 2017, 1, 286.	0.3	0
125	A modified fruit fly optimisation for classification of financial distress using FLANN. <i>International Journal of Data Science</i> , 2017, 2, 155.	0.1	0