

# Dr Himansu Sekhar Behera

## List of Publications by Year in descending order

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125  
papers

2,263  
citations

304743

22  
h-index

265206

42  
g-index

136  
all docs

136  
docs citations

136  
times ranked

1745  
citing authors

#	ARTICLE	IF	CITATIONS
1	A pragmatic ensemble learning approach for effective software effort estimation. Innovations in Systems and Software Engineering, 2022, 18, 283-299.	2.1	13
2	Deep DenseNet and ResNet Approach for COVID-19 Prognosis: Experiments on Real CT Images. Advances in Intelligent Systems and Computing, 2022, , 731-747.	0.6	1
3	A Fog-Based Intelligent Secured IoMT Framework for Early Diabetes Prediction. Internet of Things, 2022, , 199-218.	1.7	6
4	Correlation-based modified long short-term memory network approach for software defect prediction. Evolving Systems, 2022, 13, 869-887.	3.9	2
5	Extreme Learning With Metaheuristic Optimization for Exchange Rate Forecasting. International Journal of Swarm Intelligence Research, 2022, 13, 1-25.	0.7	1
6	An intelligent multi-robot path planning in a dynamic environment using improved gravitational search algorithm. International Journal of Automation and Computing, 2021, 18, 1032-1044.	4.5	9
7	Covid CT-net: A deep learning framework for COVID-19 prognosis using CT images. Journal of Interdisciplinary Mathematics, 2021, 24, 327-352.	0.7	14
8	A novel probabilistic intuitionistic fuzzy set based model for high order fuzzy time series forecasting. Engineering Applications of Artificial Intelligence, 2021, 99, 104136.	8.1	41
9	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, .	1.0	3
10	Optimal Selection of Features Using Artificial Electric Field Algorithm for Classification. Arabian Journal for Science and Engineering, 2021, 46, 8355-8369.	3.0	18
11	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.	1.9	12
12	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.	2.1	24
13	Simple polymerase chain reaction assay to differentiate between fungal and <i>Pythium insidiosum</i> keratitis. Clinical and Experimental Ophthalmology, 2021, 49, 630-632.	2.6	8
14	Exact greedy algorithm based split finding approach for intrusion detection in fog-enabled IoT environment. Journal of Information Security and Applications, 2021, 60, 102866.	2.5	20
15	Multiplicative Holts Winter Model for Trend Analysis and Forecasting of COVID-19 Spread in India. SN Computer Science, 2021, 2, 416.	3.6	13
16	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.	3.9	46
17	A study on leading machine learning techniques for high order fuzzy time series forecasting. Engineering Applications of Artificial Intelligence, 2020, 87, 103245.	8.1	52
18	Advancement from neural networks to deep learning in software effort estimation: Perspective of two decades. Computer Science Review, 2020, 38, 100288.	15.3	48

#	ARTICLE	IF	CITATIONS
19	Time Series Forecasting Using Differential Evolution-Based ANN Modelling Scheme. Arabian Journal for Science and Engineering, 2020, 45, 11129-11146.	3.0	8
20	Role of intelligent computing in COVID-19 prognosis: A state-of-the-art review. Chaos, Solitons and Fractals, 2020, 138, 109947.	5.1	142
21	High-Order Fuzzy Time Series Forecasting by Using Membership Values Along with Data and Support Vector Machine. Arabian Journal for Science and Engineering, 2020, 45, 10311-10325.	3.0	22
22	Disease Classification Using Linguistic Neuro-Fuzzy Model. Advances in Intelligent Systems and Computing, 2020, , 45-53.	0.6	10
23	A Hybrid Neuro-Fuzzy and Feature Reduction Model for Classification. Advances in Fuzzy Systems, 2020, 2020, 1-15.	0.9	15
24	Estimating Software Effort Using Neural Network: An Experimental Investigation. Advances in Intelligent Systems and Computing, 2020, , 165-180.	0.6	9
25	Pi-Sigma Neural Network: Survey of a Decade Progress. Advances in Intelligent Systems and Computing, 2020, , 429-441.	0.6	2
26	Medical disease analysis using Neuro-Fuzzy with Feature Extraction Model for classification. Informatics in Medicine Unlocked, 2020, 18, 100288.	3.4	35
27	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.	0.6	5
28	Fuzzy Time Series Forecasting: A Survey. Advances in Intelligent Systems and Computing, 2020, , 641-651.	0.6	5
29	A Novel Hybrid Differential Evolution-PSNN for Fuzzy Time Series Forecasting. Advances in Intelligent Systems and Computing, 2020, , 675-687.	0.6	11
30	Role of Soft Computing Techniques in Software Effort Estimation: An Analytical Study. Advances in Intelligent Systems and Computing, 2020, , 807-831.	0.6	7
31	A Multi-step-Ahead Fuzzy Time Series Forecasting by Using Hybrid Chemical Reaction Optimization with Pi-Sigma Higher-Order Neural Network. Advances in Intelligent Systems and Computing, 2020, , 1029-1041.	0.6	10
32	An Experimental Analysis of Machine Learning Classification Algorithms on Biomedical Data. Lecture Notes in Electrical Engineering, 2020, , 525-539.	0.4	26
33	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.	0.4	2
34	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
35	An Adaptive Fuzzy Filter-Based Hybrid ARIMA-HONN Model for Time Series Forecasting. Advances in Intelligent Systems and Computing, 2019, , 841-850.	0.6	2
36	A Survey on Teachingâ€“Learning-Based Optimization Algorithm: Short Journey from 2011 to 2017. Advances in Intelligent Systems and Computing, 2019, , 739-758.	0.6	8

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37	Chemical Reaction Optimization: A Survey with Application and Challenges. Advances in Intelligent Systems and Computing, 2019, , 507-524.	0.6	4
38	A comprehensive study on evolutionary algorithmâ€based multilayer perceptron for realâ€world data classification under uncertainty. Expert Systems, 2019, 36, e12327.	4.5	3
39	Efficient financial time series prediction with evolutionary virtual data position exploration. Neural Computing and Applications, 2019, 31, 1053-1074.	5.6	16
40	ACFLN: artificial chemical functional link network for prediction of stock market index. Evolving Systems, 2019, 10, 567-592.	3.9	44
41	Classification of Diabetes Mellitus Disease (DMD): A Data Mining (DM) Approach. Advances in Intelligent Systems and Computing, 2018, , 539-549.	0.6	60
42	Higher Order Neural Network and Its Applications: A Comprehensive Survey. Advances in Intelligent Systems and Computing, 2018, , 695-709.	0.6	5
43	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.	6.1	20
44	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.	3.9	9
45	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.	5.6	12
46	Artificial chemical reaction optimization based neural net for virtual data position exploration for efficient financial time series forecasting. Ain Shams Engineering Journal, 2018, 9, 1731-1744.	6.1	14
47	A Fuzzy Filter Based Hybrid ARIMA-ANN Model for Time Series Forecasting. Advances in Intelligent Systems and Computing, 2018, , 592-601.	0.6	2
48	Time Series Forecasting using a hybrid Jaya-FLANN model. , 2018, , .		1
49	Escalation of Prediction Accuracy With Virtual Data. Advances in Computational Intelligence and Robotics Book Series, 2018, , 433-461.	0.4	1
50	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.	0.5	8
51	Artificial chemical reaction optimization of neural networks for efficient prediction of stock market indices. Ain Shams Engineering Journal, 2017, 8, 371-390.	6.1	37
52	Hybrid chemical reaction based metaheuristic with fuzzy c-means algorithm for optimal cluster analysis. Expert Systems With Applications, 2017, 79, 282-295.	7.6	29
53	Cluster Analysis Using Firefly-Based K-means Algorithm: A Combined Approach. Advances in Intelligent Systems and Computing, 2017, , 55-64.	0.6	4
54	A hybrid ETSâ€ANN model for time series forecasting. Engineering Applications of Artificial Intelligence, 2017, 66, 49-59.	8.1	133

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55	A modified fruit fly optimisation for classification of financial distress using FLANN. International Journal of Data Science, 2017, 2, 155.	0.1	1
56	An improved harmony search-based functional link higher order ANN for nonlinear data classification. International Journal of Intelligent Systems Design and Computing, 2017, 1, 286.	0.7	0
57	Exploration and incorporation of virtual data positions for efficient forecasting of financial time series. International Journal of Industrial and Systems Engineering, 2017, 26, 42.	0.2	4
58	Fuzzy Clustering with Improved Swarm Optimization and Genetic Algorithm: Hybrid Approach. Advances in Intelligent Systems and Computing, 2017, , 237-247.	0.6	3
59	An improved harmony search-based functional link higher order ANN for nonlinear data classification. International Journal of Intelligent Systems Design and Computing, 2017, 1, 286.	0.7	0
60	A modified fruit fly optimisation for classification of financial distress using FLANN. International Journal of Data Science, 2017, 2, 155.	0.1	0
61	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
62	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.	0.2	6
63	Fluctuation prediction of stock market index by adaptive evolutionary higher order neural networks. International Journal of Swarm Intelligence, 2016, 2, 229.	0.3	10
64	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	9
65	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.	0.3	0
66	A hybrid CRO-based FLANN for financial stock market forecasting. International Journal of Data Analysis Techniques and Strategies, 2016, 8, 261.	0.2	2
67	An improved particle swarm optimization for multi-robot path planning. , 2016, , .		11
68	A hybrid improved PSO-DV algorithm for multi-robot path planning in a clutter environment. Neurocomputing, 2016, 207, 735-753.	5.9	106
69	An efficient FLANN model with CRO-based gradient descent learning for classification. International Journal of Business Information Systems, 2016, 21, 73.	0.2	8
70	A hybridization of an improved particle swarm optimization and gravitational search algorithm for multi-robot path planning. Swarm and Evolutionary Computation, 2016, 28, 14-28.	8.1	210
71	A self adaptive harmony search based functional link higher order ANN for non-linear data classification. Neurocomputing, 2016, 179, 69-87.	5.9	36
72	Optimizing a Higher Order Neural Network Through Teaching Learning Based Optimization Algorithm. Advances in Intelligent Systems and Computing, 2016, , 57-71.	0.6	6

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73	Evolving Low Complex Higher Order Neural Network Based Classifiers for Medical Data Classification. Advances in Intelligent Systems and Computing, 2016, , 415-425.	0.6	3
74	Intelligent-based multi-robot path planning inspired by improved classical Q-learning and improved particle swarm optimization with perturbed velocity. Engineering Science and Technology, an International Journal, 2016, 19, 651-669.	3.2	48
75	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.	0.6	4
76	A Global-best Harmony Search based Gradient Descent Learning FLANN (GbHS-GDL-FLANN) for data classification. Egyptian Informatics Journal, 2016, 17, 57-87.	6.8	9
77	A novel nature inspired firefly algorithm with higher order neural network: Performance analysis. Engineering Science and Technology, an International Journal, 2016, 19, 197-211.	3.2	53
78	Evolutionary Improved Swarm-Based Hybrid K-Means Algorithm for Cluster Analysis. Advances in Intelligent Systems and Computing, 2016, , 343-352.	0.6	14
79	A Hybrid Model of FLANN and Firefly Algorithm for Classification. Advances in Computational Intelligence and Robotics Book Series, 2016, , 491-522.	0.4	4
80	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
81	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
82	A hybrid CRO-based FLANN for financial stock market forecasting. International Journal of Data Analysis Techniques and Strategies, 2016, 8, 261.	0.2	0
83	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
84	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.	0.2	0
85	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.	0.3	3
86	Fluctuation prediction of stock market index by adaptive evolutionary higher order neural networks. International Journal of Swarm Intelligence, 2016, 2, 229.	0.3	3
87	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
88	An improved gravitational search algorithm and its performance analysis for multi-robot path planning. , 2015, , .		6
89	Particle Swarm Optimization Based Higher Order Neural Network for Classification. Smart Innovation, Systems and Technologies, 2015, , 401-414.	0.6	7
90	Hybrid Gravitational Search and Particle Swarm Based Fuzzy MLP for Medical Data Classification. Smart Innovation, Systems and Technologies, 2015, , 35-43.	0.6	5

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91	An Integrated Clustering Framework Using Optimized K-means with Firefly and Canopies. Smart Innovation, Systems and Technologies, 2015, , 333-343.	0.6	2
92	Robust signal processing compression for clustering of speech waveform and image spectrum. , 2015, , .		1
93	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.	0.6	5
94	Character Recognition Using Firefly Based Back Propagation Neural Network. Smart Innovation, Systems and Technologies, 2015, , 151-164.	0.6	6
95	A Novel FLANN with a Hybrid PSO and GA Based Gradient Descent Learning for Classification. Advances in Intelligent Systems and Computing, 2015, , 745-754.	0.6	16
96	Fuzzy C-Means (FCM) Clustering Algorithm: A Decade Review from 2000 to 2014. Smart Innovation, Systems and Technologies, 2015, , 133-149.	0.6	108
97	An Efficient PSO-GA Based Back Propagation Learning-MLP (PSO-GA-BP-MLP) for Classification. Smart Innovation, Systems and Technologies, 2015, , 517-527.	0.6	4
98	A Pi-Sigma Higher Order Neural Network for Stock Index Forecasting. Smart Innovation, Systems and Technologies, 2015, , 311-319.	0.6	8
99	A Harmony Search Based Gradient Descent Learning-FLANN (HS-GDL-FLANN) for Classification. Smart Innovation, Systems and Technologies, 2015, , 525-539.	0.6	10
100	A novel Chemical Reaction Optimization based Higher order Neural Network (CRO-HONN) for nonlinear classification. Ain Shams Engineering Journal, 2015, 6, 1069-1091.	6.1	37
101	A CRO Based FLANN for Forecasting Foreign Exchange Rates Using FLANN. Smart Innovation, Systems and Technologies, 2015, , 647-664.	0.6	6
102	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.	0.6	8
103	A Honey Bee Mating Optimization Based Gradient Descent Learning “ FLANN (HBMO-GDL-FLANN) for Classification. Advances in Intelligent Systems and Computing, 2015, , 211-220.	0.6	15
104	A Novel PSO Based Back Propagation Learning-MLP (PSO-BP-MLP) for Classification. Smart Innovation, Systems and Technologies, 2015, , 461-471.	0.6	45
105	An Improved Swarm Based Hybrid K-Means Clustering for Optimal Cluster Centers. Advances in Intelligent Systems and Computing, 2015, , 545-553.	0.6	9
106	HOG Based Radial Basis Function Network for Brain MR Image Classification. Smart Innovation, Systems and Technologies, 2015, , 45-56.	0.6	0
107	Hybrid CRO Based FLANN for Financial Credit Risk Forecasting. Smart Innovation, Systems and Technologies, 2015, , 57-65.	0.6	0
108	A hybrid PSO-GA based Pi sigma neural network (PSNN) with standard back propagation gradient descent learning for classification. , 2014, , .		16



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109	GA Based Polynomial Neural Network for Data Classification. , 2014, , .		4
110	Firefly based ridge polynomial neural network for classification. , 2014, , .		6
111	A higher order evolutionary Jordan Pi-Sigma Neural Network with gradient descent learning for classification. , 2014, , .		13
112	Cooperative optimization for efficient financial time series forecasting. , 2014, , .		2
113	An Improved Firefly Fuzzy C-Means (FAFCM) Algorithm for Clustering Real World Data Sets. Smart Innovation, Systems and Technologies, 2014, , 339-348.	0.6	18
114	Hybridizing chemical reaction optimization and Artificial Neural Network for stock future index forecasting. , 2013, , .		8
115	A novel chemical reaction-based clustering and its performance analysis. International Journal of Business Intelligence and Data Mining, 2013, 8, 184.	0.2	5
116	Time Series Forecasting using Evolutionary Neural Network. International Journal of Computer Applications, 2013, 75, 13-17.	0.2	13
117	Evaluation of normalization methods on neuro-genetic models for stock index forecasting. , 2012, , .		8
118	Classification of power quality data using decision tree and chemotactic differential evolution based fuzzy clustering. Swarm and Evolutionary Computation, 2012, 4, 12-24.	8.1	54
119	Index prediction with neuro-genetic hybrid network: A comparative analysis of performance. , 2012, , .		28
120	Power quality time series data mining using S-transform and fuzzy expert system. Applied Soft Computing Journal, 2010, 10, 945-955.	7.2	98
121	Comparative performance analysis of proposed variants of list accessing algorithms using centralized cost model with doublylinked list. , 2010, , .		0
122	Time sequence data mining using timeâ€“frequency analysis and soft computing techniques. Applied Soft Computing Journal, 2008, 8, 202-215.	7.2	17
123	A Non-Probabilistic Neutrosophic Entropy-Based Method For High-Order Fuzzy Time-Series Forecasting. Arabian Journal for Science and Engineering, 0, , 1.	3.0	6
124	Adaptive Hybrid Higher Order Neural Networks for Prediction of Stock Market Behavior. , 0, , 553-570.		4
125	Improving Performance of Higher Order Neural Network using Artificial Chemical Reaction Optimization. , 0, , 1753-1780.		2