Pravin Chandra

List of Publications by Year
in descending order

83 papers	837 citations	516710 16 h-index	580821 25 g-index
88 all docs	88 docs citations	88 times ranked	500 citing authors

#	Article	IF	Citations
1	Effects of similarity/distance metrics on k-means algorithm with respect to its applications in IoT and multimedia: a review. Multimedia Tools and Applications, 2022, 81, 37007-37032.	3.9	9
2	Weight and bias initialization routines for Sigmoidal Feedforward Network. Applied Intelligence, 2021, 51, 2651-2671.	5.3	3
3	An Empirical Study of Activation Functions for Function Approximation Tasks. Lecture Notes in Networks and Systems, 2021, , 275-285.	0.7	0
4	Improving learning in neural networks through weight initializations. Journal of Information and Optimization Sciences, 2021, 42, 951-971.	0.3	0
5	A New Activation Function Validated on Function Approximation Tasks. Lecture Notes in Networks and Systems, 2021, , 311-321.	0.7	2
6	A Non-monotonic Activation Function for Neural Networks Validated on Benchmark Tasks. Studies in Computational Intelligence, 2021, , 319-327.	0.9	0
7	Energy dissipation model for wireless sensor networks: a survey. International Journal of Information Technology (Singapore), 2020, 12, 1343-1353.	2.7	15
8	Architectural Parameter-Independent Network Initialization Scheme for Sigmoidal Feedforward ANNs. Arabian Journal for Science and Engineering, 2020, 45, 2901-2913.	3.0	3
9	Threshold sensitive clustering in SEP. Sustainable Computing: Informatics and Systems, 2020, 25, 100367.	2.2	5
10	FFANN Weight Initialization: A New Method. , 2020, , .		0
11	A comprehensive survey of data mining. International Journal of Information Technology (Singapore), 2020, 12, 1243-1257.	2.7	62
12	Linear regression with factor analysis in fault prediction of software. Journal of Interdisciplinary Mathematics, 2020, 23, 11-19.	0.7	20
13	An Empirical Evaluation of K-Means Clustering Algorithm Using Different Distance/Similarity Metrics. Lecture Notes in Electrical Engineering, 2020, , 884-892.	0.4	16
14	Analysis of Data Aggregation Techniques in WSN. Advances in Intelligent Systems and Computing, 2020, , 571-581.	0.6	10
15	Estimation of Optimum Number of Clusters in WSN. Advances in Intelligent Systems and Computing, 2020, , 559-570.	0.6	1
16	Towards recent developments in the methods, metrics and datasets of software fault prediction. International Journal of Computational Systems Engineering, 2020, 6, 14.	0.2	1
17	Comparison of Random Weight Initialization to New Weight Initialization CONEXP. Communications in Computer and Information Science, 2020, , 279-289.	0.5	0
18	Chaos Based Network Initialization Approach for Feed Forward Artificial Neural Networks. Journal of Computational and Theoretical Nanoscience, 2020, 17, 418-424.	0.4	3

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19	A comparative analysis of soft computing techniques in software fault prediction model development. International Journal of Information Technology (Singapore), 2019, 11, 37-46.	2.7	16
20	EEDAC-WSN: Energy Efficient Data Aggregation in Clustered WSN. , 2019, , .		15
21	Identification of latent variables using, factor analysis and multiple linear regression for software fault prediction. International Journal of Systems Assurance Engineering and Management, 2019, 10, 1453-1473.	2.4	6
22	HYBCIM: Hypercube Based Cluster Initialization Method for k-means. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 3584-3587.	0.3	4
23	A Non-Polynomial, Non-Sigmoidal, Bounded and Symmetric Activation Function for Feed â€" Forward Artificial Neural Networks. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 405-410.	0.3	0
24	Asymmetric Sigmoidal Activation Function for Feed-Forward Artificial Neural Networks. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 852-858.	0.3	0
25	Comprehensive survey on data warehousing research. International Journal of Information Technology (Singapore), 2018, 10, 217-224.	2.7	21
26	Software Fault Prediction Using Machine-Learning Techniques. Smart Innovation, Systems and Technologies, 2018, , 541-549.	0.6	24
27	Efficient Fault Prediction Using Exploratory and Causal Techniques. , 2018, , .		3
28	A Note on Optimum Cluster Estimation in LEACH Protocol. IEEE Access, 2018, 6, 65690-65696.	4.2	27
29	A new weight initialization method for sigmoidal FFANN. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5193-5201.	1.4	6
30	Applicability of Soft Computing and Optimization Algorithms in Software Testing and Metrics â€" A Brief Review. Advances in Intelligent Systems and Computing, 2018, , 535-546.	0.6	3
31	Fuzzy inferencing to identify degree of interaction in the development of fault prediction models. Journal of King Saud University - Computer and Information Sciences, 2017, 29, 93-102.	3.9	5
32	Soft Computing Based Software Testing â€" A Concise Travelogue. Advances in Intelligent Systems and Computing, 2017, , 220-228.	0.6	3
33	Bi-modal derivative adaptive activation function sigmoidal feedforward artificial neural networks. Applied Soft Computing Journal, 2017, 61, 983-994.	7.2	11
34	Analysis of weight initialization routines for conjugate gradient training algorithm with Fletcher-Reeves updates. , 2016, , .		1
35	Effect of Activation Function Symmetry on Training of SFFANNs with RPROP Algorithm. , 2016, , .		0
36	Effect of activation function symmetry on training of SFFANNs with the backpropagation algorithm. , 2016, , .		2

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37	Analysis of Weight Initialization Routines for Scaled Conjugate Gradient Training Algorithm. , 2016, , .		1
38	Empirical study of various weight initialization techniques for FFANN. , 2016, , .		1
39	Sentiment Predictions Using Deep Belief Networks Model for Odd-Even Policy in Delhi. International Journal of Synthetic Emotions, 2016, 7, 1-22.	0.3	7
40	A statistically resilient method of weight initialization for SFANN. , 2015, , .		5
41	Analysis of weight initialization techniques for Gradient Descent algorithm. , 2015, , .		2
42	On the feasibility of solving regression learning tasks with FFANN using non-sigmoidal activation functions. , 2015, , .		1
43	Analysis of weight initialization methods for gradient descent with momentum. , 2015, , .		7
44	Review and extension of fault class hierarchy for testing Boolean specification. International Journal of Computer Applications in Technology, 2015, 52, 29.	0.5	3
45	A Novel Approach to Deep Packet Inspection for Intrusion Detection. Procedia Computer Science, 2015, 45, 506-513.	2.0	16
46	A non-sigmoidal activation function for feedforward artificial neural networks. , 2015, , .		5
47	Why interaction between metrics should be considered in the development of software quality models. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2014, 39, 1-4.	0.7	1
48	A partially deterministic weight initialization method for SFFANNs. , 2014, , .		9
49	A skewed derivative activation function for SFFANNs. , 2014, , .		4
50	Performance improvement of deep packet inspection for Intrusion Detection. , 2014, , .		5
51	A new weight initialization method for sigmoidal feedforward artificial neural networks. , 2014, , .		10
52	Bi-modal derivative activation function for sigmoidal feedforward networks. Neurocomputing, 2014, 143, 182-196.	5.9	25
53	Suitability of KNN Regression in the Development of Interaction based Software Fault Prediction Models. IERI Procedia, 2014, 6, 15-21.	0.3	44
54	Interval based Weight Initialization Method for Sigmoidal Feedforward Artificial Neural Networks. AASRI Procedia, 2014, 6, 19-25.	0.6	26

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55	Rotational invariant fingerprint matching using local directional descriptors. International Journal of Computational Intelligence Studies, 2014, 3, 292.	0.3	10
56	An empirical evaluation of rotation invariance of LDP feature for fingerprint matching using neural networks. International Journal of Computational Vision and Robotics, 2014, 4, 330.	0.3	12
57	Local directional pattern (LDP) based fingerprint matching using SLFNN. , 2013, , .		11
58	Fingerprint Matching Using Rotational Invariant Image Based Descriptor and Machine Learning Techniques. , 2013, , .		3
59	Identifying influential metrics in the combined metrics approach of fault prediction. SpringerPlus, 2013, 2, 627.	1.2	15
60	Impact of Gaussian learning rate on training of sigmoidal FFANN using zero and random weight initializations. , 2013, , .		1
61	Metrics for Weight Stuck-at-Zero Fault in Sigmoidal FFANNs. , 2013, , .		1
62	Training neural network with zero weight initialization. , 2012, , .		6
63	A Constructive Algorithm with Adaptive Sigmoidal Function for Designing Single Hidden Layer Feedforward Neural Network. Advanced Materials Research, 2011, 403-408, 3867-3874.	0.3	1
64	An Adaptive Sigmoidal Activation Function Cascading Neural Networks. Advances in Intelligent and Soft Computing, 2011, , 105-116.	0.2	4
65	Metrics for measurement of additive noise to weight in sigmoidal FFANNs. , 2010, , .		0
66	An Adaptive Slope Basic Dynamic Node Creation Algorithm for Single Hidden Layer Neural Networks. , 2010, , .		3
67	An Adaptive Slope Sigmoidal Function Cascading Neural Networks Algorithm. , 2010, , .		8
68	Sensitivity Measurement of Neural Hardware: A Simulation Based Study. Communications in Computer and Information Science, 2010, , 131-141.	0.5	0
69	Fault Models for Neural Hardware. , 2009, , .		5
70	Generation of mutants for boolean expression. Journal of Discrete Mathematical Sciences and Cryptography, 2008, 11, 589-607.	0.8	1
71	Sensitivity analysis of fuzzy and neural network models. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2005, 30, 1-4.	0.7	12
72	Sigmoidal FFANNâ€™s and the best approximation property. Journal of Interdisciplinary Mathematics, 2005, 8, 287-299.	0.7	3

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73	Measurement of Software Maintainability Using a Fuzzy Model. Journal of Computer Science, 2005, 1, 538-542.	0.6	58
74	A case for the self-adaptation of activation functions in FFANNs. Neurocomputing, 2004, 56, 447-454.	5.9	19
75	An activation function adapting training algorithm for sigmoidal feedforward networks. Neurocomputing, 2004, 61, 429-437.	5.9	65
76	Feedforward Sigmoidal Networksâ€"Equicontinuity and Fault-Tolerance Properties. IEEE Transactions on Neural Networks, 2004, 15, 1350-1366.	4.2	37
77	Sigmoidal Function Classes for Feedforward Artificial Neural Networks. Neural Processing Letters, 2003, 18, 205-215.	3.2	26
78	A class +1 sigmoidal activation functions for FFANNs. Journal of Economic Dynamics and Control, 2003, 28, 183-187.	1.6	38
79	Fingerprint Singular Point Detection Using Orientation Field Reliability. Advanced Materials Research, 0, 403-408, 4499-4506.	0.3	3
80	Cascading Neural Networks Using Adaptive Sigmoidal Function. Advanced Materials Research, 0, 403-408, 858-865.	0.3	0
81	Fingerprint Matching Based on Orientation Feature. Advanced Materials Research, 0, 403-408, 888-894.	0.3	5
82	P-k-means: k-means Using Partition Based Cluster Initialization Method. SSRN Electronic Journal, 0, , .	0.4	7
83	A Robust Fingerprint Matching System Using Orientation Features. Journal of Information Processing Systems, 0, , .	0.9	1