

Pravin Chandra

List of Publications by Year in descending order

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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	An activation function adapting training algorithm for sigmoidal feedforward networks. Neurocomputing, 2004, 61, 429-437.	5.9	65
2	A comprehensive survey of data mining. International Journal of Information Technology (Singapore), 2020, 12, 1243-1257.	2.7	62
3	Measurement of Software Maintainability Using a Fuzzy Model. Journal of Computer Science, 2005, 1, 538-542.	0.6	58
4	Suitability of KNN Regression in the Development of Interaction based Software Fault Prediction Models. IERI Procedia, 2014, 6, 15-21.	0.3	44
5	A class +1 sigmoidal activation functions for FFANNs. Journal of Economic Dynamics and Control, 2003, 28, 183-187.	1.6	38
6	Feedforward Sigmoidal Networksâ€™ Equicontinuity and Fault-Tolerance Properties. IEEE Transactions on Neural Networks, 2004, 15, 1350-1366.	4.2	37
7	A Note on Optimum Cluster Estimation in LEACH Protocol. IEEE Access, 2018, 6, 65690-65696.	4.2	27
8	Sigmoidal Function Classes for Feedforward Artificial Neural Networks. Neural Processing Letters, 2003, 18, 205-215.	3.2	26
9	Interval based Weight Initialization Method for Sigmoidal Feedforward Artificial Neural Networks. AASRI Procedia, 2014, 6, 19-25.	0.6	26
10	Bi-modal derivative activation function for sigmoidal feedforward networks. Neurocomputing, 2014, 143, 182-196.	5.9	25
11	Software Fault Prediction Using Machine-Learning Techniques. Smart Innovation, Systems and Technologies, 2018, , 541-549.	0.6	24
12	Comprehensive survey on data warehousing research. International Journal of Information Technology (Singapore), 2018, 10, 217-224.	2.7	21
13	Linear regression with factor analysis in fault prediction of software. Journal of Interdisciplinary Mathematics, 2020, 23, 11-19.	0.7	20
14	A case for the self-adaptation of activation functions in FFANNs. Neurocomputing, 2004, 56, 447-454.	5.9	19
15	A Novel Approach to Deep Packet Inspection for Intrusion Detection. Procedia Computer Science, 2015, 45, 506-513.	2.0	16
16	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
17	An Empirical Evaluation of K-Means Clustering Algorithm Using Different Distance/Similarity Metrics. Lecture Notes in Electrical Engineering, 2020, , 884-892.	0.4	16
18	Identifying influential metrics in the combined metrics approach of fault prediction. SpringerPlus, 2013, 2, 627.	1.2	15

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19	EEDAC-WSN: Energy Efficient Data Aggregation in Clustered WSN. , 2019, , .		15
20	Energy dissipation model for wireless sensor networks: a survey. International Journal of Information Technology (Singapore), 2020, 12, 1343-1353.	2.7	15
21	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
22	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
23	Local directional pattern (LDP) based fingerprint matching using SLFNN. , 2013, , .		11
24	Bi-modal derivative adaptive activation function sigmoidal feedforward artificial neural networks. Applied Soft Computing Journal, 2017, 61, 983-994.	7.2	11
25	A new weight initialization method for sigmoidal feedforward artificial neural networks. , 2014, , .		10
26	Rotational invariant fingerprint matching using local directional descriptors. International Journal of Computational Intelligence Studies, 2014, 3, 292.	0.3	10
27	Analysis of Data Aggregation Techniques in WSN. Advances in Intelligent Systems and Computing, 2020, , 571-581.	0.6	10
28	A partially deterministic weight initialization method for SFFANNs. , 2014, , .		9
29	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
30	An Adaptive Slope Sigmoidal Function Cascading Neural Networks Algorithm. , 2010, , .		8
31	Analysis of weight initialization methods for gradient descent with momentum. , 2015, , .		7
32	P-k-means: k-means Using Partition Based Cluster Initialization Method. SSRN Electronic Journal, 0, , .	0.4	7
33	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
34	Training neural network with zero weight initialization. , 2012, , .		6
35	A new weight initialization method for sigmoidal FFANN. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5193-5201.	1.4	6
36	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

#	ARTICLE	IF	CITATIONS
37	Fault Models for Neural Hardware. , 2009, , .		5
38	Fingerprint Matching Based on Orientation Feature. Advanced Materials Research, 0, 403-408, 888-894.	0.3	5
39	Performance improvement of deep packet inspection for Intrusion Detection. , 2014, , .		5
40	A statistically resilient method of weight initialization for SFANN. , 2015, , .		5
41	A non-sigmoidal activation function for feedforward artificial neural networks. , 2015, , .		5
42	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
43	Threshold sensitive clustering in SEP. Sustainable Computing: Informatics and Systems, 2020, 25, 100367.	2.2	5
44	A skewed derivative activation function for SFFANNs. , 2014, , .		4
45	HYBCIM: Hypercube Based Cluster Initialization Method for k-means. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 3584-3587.	0.3	4
46	An Adaptive Sigmoidal Activation Function Cascading Neural Networks. Advances in Intelligent and Soft Computing, 2011, , 105-116.	0.2	4
47	Sigmoidal FFANNs and the best approximation property. Journal of Interdisciplinary Mathematics, 2005, 8, 287-299.	0.7	3
48	An Adaptive Slope Basic Dynamic Node Creation Algorithm for Single Hidden Layer Neural Networks. , 2010, , .		3
49	Fingerprint Singular Point Detection Using Orientation Field Reliability. Advanced Materials Research, 0, 403-408, 4499-4506.	0.3	3
50	Fingerprint Matching Using Rotational Invariant Image Based Descriptor and Machine Learning Techniques. , 2013, , .		3
51	Review and extension of fault class hierarchy for testing Boolean specification. International Journal of Computer Applications in Technology, 2015, 52, 29.	0.5	3
52	Soft Computing Based Software Testing – A Concise Travelogue. Advances in Intelligent Systems and Computing, 2017, , 220-228.	0.6	3
53	Efficient Fault Prediction Using Exploratory and Causal Techniques. , 2018, , .		3
54	Architectural Parameter-Independent Network Initialization Scheme for Sigmoidal Feedforward ANNs. Arabian Journal for Science and Engineering, 2020, 45, 2901-2913.	3.0	3

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55	Weight and bias initialization routines for Sigmoidal Feedforward Network. Applied Intelligence, 2021, 51, 2651-2671.	5.3	3
56	Applicability of Soft Computing and Optimization Algorithms in Software Testing and Metrics – A Brief Review. Advances in Intelligent Systems and Computing, 2018, , 535-546.	0.6	3
57	Chaos Based Network Initialization Approach for Feed Forward Artificial Neural Networks. Journal of Computational and Theoretical Nanoscience, 2020, 17, 418-424.	0.4	3
58	Analysis of weight initialization techniques for Gradient Descent algorithm. , 2015, , .		2
59	Effect of activation function symmetry on training of SFFANNs with the backpropagation algorithm. , 2016, , .		2
60	A New Activation Function Validated on Function Approximation Tasks. Lecture Notes in Networks and Systems, 2021, , 311-321.	0.7	2
61	Generation of mutants for boolean expression. Journal of Discrete Mathematical Sciences and Cryptography, 2008, 11, 589-607.	0.8	1
62	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
63	Impact of Gaussian learning rate on training of sigmoidal FFANN using zero and random weight initializations. , 2013, , .		1
64	Metrics for Weight Stuck-at-Zero Fault in Sigmoidal FFANNs. , 2013, , .		1
65	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
66	On the feasibility of solving regression learning tasks with FFANN using non-sigmoidal activation functions. , 2015, , .		1
67	Analysis of weight initialization routines for conjugate gradient training algorithm with Fletcher-Reeves updates. , 2016, , .		1
68	Analysis of Weight Initialization Routines for Scaled Conjugate Gradient Training Algorithm. , 2016, , .		1
69	Empirical study of various weight initialization techniques for FFANN. , 2016, , .		1
70	A Robust Fingerprint Matching System Using Orientation Features. Journal of Information Processing Systems, 0, , .	0.9	1
71	Estimation of Optimum Number of Clusters in WSN. Advances in Intelligent Systems and Computing, 2020, , 559-570.	0.6	1
72	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

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73	Metrics for measurement of additive noise to weight in sigmoidal FFANNs. , 2010, , .		0
74	Cascading Neural Networks Using Adaptive Sigmoidal Function. Advanced Materials Research, 0, 403-408, 858-865.	0.3	0
75	Effect of Activation Function Symmetry on Training of SFFANNs with RPROP Algorithm. , 2016, , .		0
76	FFANN Weight Initialization: A New Method. , 2020, , .		0
77	An Empirical Study of Activation Functions for Function Approximation Tasks. Lecture Notes in Networks and Systems, 2021, , 275-285.	0.7	0
78	Improving learning in neural networks through weight initializations. Journal of Information and Optimization Sciences, 2021, 42, 951-971.	0.3	0
79	A Non-monotonic Activation Function for Neural Networks Validated on Benchmark Tasks. Studies in Computational Intelligence, 2021, , 319-327.	0.9	0
80	Sensitivity Measurement of Neural Hardware: A Simulation Based Study. Communications in Computer and Information Science, 2010, , 131-141.	0.5	0
81	A Non-Polynomial, Non-Sigmoidal, Bounded and Symmetric Activation Function for Feed “ Forward Artificial Neural Networks. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 405-410.	0.3	0
82	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
83	Comparison of Random Weight Initialization to New Weight Initialization CONEXP. Communications in Computer and Information Science, 2020, , 279-289.	0.5	0