

Dianhui Wang

List of Publications by Year in descending order

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161
papers

5,644
citations

126907

33
h-index

85541

71
g-index

171
all docs

171
docs citations

171
times ranked

4372
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme learning machines: a survey. International Journal of Machine Learning and Cybernetics, 2011, 2, 107-122.	3.6	1,625
2	Stochastic Configuration Networks: Fundamentals and Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 3466-3479.	9.5	379
3	Randomness in neural networks: an overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2017, 7, e1200.	6.8	175
4	Fast decorrelated neural network ensembles with random weights. Information Sciences, 2014, 264, 104-117.	6.9	163
5	Distributed learning for Random Vector Functional-Link networks. Information Sciences, 2015, 301, 271-284.	6.9	134
6	Insights into randomized algorithms for neural networks: Practical issues and common pitfalls. Information Sciences, 2017, 382-383, 170-178.	6.9	134
7	Assessing Short-Term Voltage Stability of Electric Power Systems by a Hierarchical Intelligent System. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1686-1696.	11.3	113
8	A Self-Adaptive RBF Neural Network Classifier for Transformer Fault Analysis. IEEE Transactions on Power Systems, 2010, 25, 1350-1360.	6.5	109
9	A decentralized training algorithm for Echo State Networks in distributed big data applications. Neural Networks, 2016, 78, 65-74.	5.9	102
10	Robust stochastic configuration networks with kernel density estimation for uncertain data regression. Information Sciences, 2017, 412-413, 210-222.	6.9	96
11	A robust adaptive neural networks controller for maritime dynamic positioning system. Neurocomputing, 2013, 110, 128-136.	5.9	95
12	Stochastic configuration networks ensemble with heterogeneous features for large-scale data analytics. Information Sciences, 2017, 417, 55-71.	6.9	91
13	Evolutionary extreme learning machine ensembles with size control. Neurocomputing, 2013, 102, 98-110.	5.9	88
14	New Stability Criteria of Delayed Load Frequency Control Systems via Infinite-Series-Based Inequality. IEEE Transactions on Industrial Informatics, 2018, 14, 231-240.	11.3	75
15	Global Convergence of Online BP Training With Dynamic Learning Rate. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 330-341.	11.3	69
16	Flame Image-Based Burning State Recognition for Sintering Process of Rotary Kiln Using Heterogeneous Features and Fuzzy Integral. IEEE Transactions on Industrial Informatics, 2012, 8, 780-790.	11.3	62
17	A probabilistic learning algorithm for robust modeling using neural networks with random weights. Information Sciences, 2015, 313, 62-78.	6.9	54
18	A neuro-fuzzy approach for diagnosis of antibody deficiency syndrome. Neurocomputing, 2006, 69, 969-974.	5.9	53

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19	A new robust training algorithm for a class of single-hidden layer feedforward neural networks. <i>Neurocomputing</i> , 2011, 74, 2491-2501.	5.9	50
20	Extraction and Adaptation of Fuzzy Rules for Friction Modeling and Control Compensation. <i>IEEE Transactions on Fuzzy Systems</i> , 2011, 19, 682-693.	9.8	49
21	Adaptive robust control of oxygen excess ratio for PEMFC system based on type-2 fuzzy logic system. <i>Information Sciences</i> , 2020, 511, 1-17.	6.9	48
22	A fractional-order adaptive regularization primal-dual algorithm for image denoising. <i>Information Sciences</i> , 2015, 296, 147-159.	6.9	47
23	Quadratically convex combination approach to stability of T&S fuzzy systems with time-varying delay. <i>Journal of the Franklin Institute</i> , 2014, 351, 3752-3765.	3.4	46
24	Stochastic Configuration Networks Based Adaptive Storage Replica Management for Power Big Data Processing. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 373-383.	11.3	46
25	Deep stacked stochastic configuration networks for lifelong learning of non-stationary data streams. <i>Information Sciences</i> , 2019, 495, 150-174.	6.9	45
26	On regularizing singular systems by decentralized output feedback. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 148-152.	5.7	43
27	2-D Stochastic Configuration Networks for Image Data Analytics. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 359-372.	9.5	42
28	Effective Deep Attributed Network Representation Learning With Topology Adapted Smoothing. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 5935-5946.	9.5	41
29	Editorial: Randomized algorithms for training neural networks. <i>Information Sciences</i> , 2016, 364-365, 126-128.	6.9	40
30	Robust Single-Hidden Layer Feedforward Network-Based Pattern Classifier. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012, 23, 1974-1986.	11.3	39
31	Modeling and control compensation of nonlinear friction using adaptive fuzzy systems. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 2445-2457.	8.0	38
32	Multisource Data Ensemble Modeling for Clinker Free Lime Content Estimate in Rotary Kiln Sintering Processes. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015, 45, 303-314.	9.3	38
33	Pull-off adhesion prediction of variable thick overlay to the substrate. <i>Automation in Construction</i> , 2018, 85, 10-23.	9.8	38
34	Deep Stochastic Configuration Networks with Universal Approximation Property. , 2018, , .		38
35	An iterative learning algorithm for feedforward neural networks with random weights. <i>Information Sciences</i> , 2016, 328, 546-557.	6.9	36
36	Protein sequence classification using extreme learning machine. , 0, , .		35

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37	Robust stochastic configuration networks with maximum correntropy criterion for uncertain data regression. Information Sciences, 2019, 473, 73-86.	6.9	35
38	High dimensional data regression using Lasso model and neural networks with random weights. Information Sciences, 2016, 372, 505-517.	6.9	33
39	Burning state recognition of rotary kiln using ELMs with heterogeneous features. Neurocomputing, 2013, 102, 144-153.	5.9	32
40	Classification of bioinformatics dataset using finite impulse response extreme learning machine for cancer diagnosis. Neural Computing and Applications, 2013, 22, 457-468.	5.6	32
41	Prediction of component concentrations in sodium aluminate liquor using stochastic configuration networks. Neural Computing and Applications, 2020, 32, 13625-13638.	5.6	32
42	An optimal weight learning machine for handwritten digit image recognition. Signal Processing, 2013, 93, 1624-1638.	3.7	31
43	Distributed music classification using Random Vector Functional-Link nets. , 2015, , .		28
44	Multi-ANFIS Model Based Synchronous Tracking Control of High-Speed Electric Multiple Unit. IEEE Transactions on Fuzzy Systems, 2018, 26, 1472-1484.	9.8	28
45	Structural properties and poles assignability of LTI singular systems under output feedback. Automatica, 2003, 39, 685-692.	5.0	27
46	Quantum artificial neural networks with applications. Information Sciences, 2015, 290, 1-6.	6.9	27
47	An improved multi-source based soft sensor for measuring cement free lime content. Information Sciences, 2015, 323, 94-105.	6.9	26
48	Bayesian Random Vector Functional-Link Networks for Robust Data Modeling. IEEE Transactions on Cybernetics, 2018, 48, 2049-2059.	9.5	26
49	A comprehensive survey on genetic algorithms for DNA motif prediction. Information Sciences, 2018, 466, 25-43.	6.9	24
50	Enhancing the estimation of plant Jacobian for adaptive neural inverse control. Neurocomputing, 2000, 34, 99-115.	5.9	23
51	An improved algorithm for building self-organizing feedforward neural networks. Neurocomputing, 2017, 262, 28-40.	5.9	23
52	Advances in extreme learning machines (ELM2010). Neurocomputing, 2011, 74, 2411-2412.	5.9	22
53	Efficient saliency detection using convolutional neural networks with feature selection. Information Sciences, 2018, 456, 34-49.	6.9	20
54	Data-Driven PID Controller and Its Application to Pulp Neutralization Process. IEEE Transactions on Control Systems Technology, 2018, 26, 828-841.	5.2	20

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55	Stochastic configuration network ensembles with selective base models. <i>Neural Networks</i> , 2021, 137, 106-118.	5.9	20
56	Improved generalization of neural classifiers with enforced internal representation. <i>Neurocomputing</i> , 2007, 70, 2940-2952.	5.9	19
57	Learning Based Neural Similarity Metrics for Multimedia Data Mining. <i>Soft Computing</i> , 2006, 11, 335-340.	3.6	18
58	SOMEA: self-organizing map based extraction algorithm for DNA motif identification with heterogeneous model. <i>BMC Bioinformatics</i> , 2011, 12, S16.	2.6	18
59	Building feedforward neural networks with random weights for large scale datasets. <i>Expert Systems With Applications</i> , 2018, 106, 233-243.	7.6	18
60	Active control of friction-induced self-excited vibration using adaptive fuzzy systems. <i>Journal of Sound and Vibration</i> , 2011, 330, 4201-4210.	3.9	17
61	A local learning algorithm for random weights networks. <i>Knowledge-Based Systems</i> , 2015, 74, 159-166.	7.1	17
62	An Alternating Identification Algorithm for a Class of Nonlinear Dynamical Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 1606-1617.	11.3	17
63	Case-based reasoning classifier based on learning pseudo metric retrieval. <i>Expert Systems With Applications</i> , 2017, 89, 91-98.	7.6	17
64	Enhancing semantic image retrieval with limited labeled examples via deep learning. <i>Knowledge-Based Systems</i> , 2019, 163, 252-266.	7.1	17
65	Predicting the probability of ice storm damages to electricity transmission facilities based on ELM and Copula function. <i>Neurocomputing</i> , 2011, 74, 2573-2581.	5.9	16
66	Estimation of effluent quality using PLS-based extreme learning machines. <i>Neural Computing and Applications</i> , 2013, 22, 509-519.	5.6	16
67	Fuzzy Approach for Semantic Face Image Retrieval. <i>Computer Journal</i> , 2012, 55, 1130-1145.	2.4	15
68	Predicting mill load using partial least squares and extreme learning machines. <i>Soft Computing</i> , 2012, 16, 1585-1594.	3.6	15
69	Distributed stochastic configuration networks with cooperative learning paradigm. <i>Information Sciences</i> , 2020, 540, 1-16.	6.9	15
70	Cascade tracking control of servo motor with robust adaptive fuzzy compensation. <i>Information Sciences</i> , 2021, 569, 450-468.	6.9	15
71	A Robust Elicitation Algorithm for Discovering DNA Motifs Using Fuzzy Self-Organizing Maps. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1677-1688.	11.3	14
72	Nonlinear Decoupling Control With ANFIS-Based Unmodeled Dynamics Compensation for a Class of Complex Industrial Processes. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2352-2366.	11.3	14

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73	Stochastic configuration network based cascade generalized predictive control of main steam temperature in power plants. <i>Information Sciences</i> , 2022, 587, 123-141.	6.9	14
74	Stochastic configuration networks for self-blast state recognition of glass insulators with adaptive depth and multi-scale representation. <i>Information Sciences</i> , 2022, 604, 61-79.	6.9	14
75	On impulsive modes of linear singular systems subject to decentralized output feedback. <i>IEEE Transactions on Automatic Control</i> , 2003, 48, 1804-1809.	5.7	13
76	Robust stochastic configuration networks for industrial data modelling with Student's-t mixture distribution. <i>Information Sciences</i> , 2022, 607, 493-505.	6.9	13
77	Handling distributed XML queries over large XML data based on MapReduce framework. <i>Information Sciences</i> , 2018, 453, 1-20.	6.9	12
78	A hybrid regularization approach for random vector functional-link networks. <i>Expert Systems With Applications</i> , 2020, 140, 112912.	7.6	12
79	An adaptive buffer management algorithm for enhancing dependability and performance in mobile-object-based real-time computing. , 0, , .		11
80	Learning similarity for semantic images classification. <i>Neurocomputing</i> , 2005, 67, 363-368.	5.9	11
81	A modified ELM algorithm for single-hidden layer feedforward neural networks with linear nodes. , 2011, , .		11
82	Active control of friction self-excited vibration using neuro-fuzzy and data mining techniques. <i>Expert Systems With Applications</i> , 2013, 40, 975-983.	7.6	11
83	Trustworthiness evaluation and retrieval-based revision method for case-based reasoning classifiers. <i>Expert Systems With Applications</i> , 2015, 42, 8006-8013.	7.6	11
84	Fuzzy rule-based models with randomized development mechanisms. <i>Fuzzy Sets and Systems</i> , 2019, 361, 71-87.	2.7	11
85	Observer-Based Composite Adaptive Type-2 Fuzzy Control for PEMFC Air Supply Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 515-529.	9.8	11
86	Graph convolutional autoencoders with co-learning of graph structure and node attributes. <i>Pattern Recognition</i> , 2022, 121, 108215.	8.1	11
87	Hardware- <i>software</i> partitioning of real-time operating systems using Hopfield neural networks. <i>Neurocomputing</i> , 2006, 69, 2379-2384.	5.9	10
88	GAPK: Genetic algorithms with prior knowledge for motif discovery in DNA sequences. , 2009, , .		10
89	MISCORE: a new scoring function for characterizing DNA regulatory motifs in promoter sequences. <i>BMC Systems Biology</i> , 2012, 6, S4.	3.0	10
90	Multiview Spectral Clustering via Robust Subspace Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 2467-2476.	9.5	10

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91	Deep stochastic configuration networks with optimised model and hyper-parameters. Information Sciences, 2022, 600, 431-441.	6.9	10
92	Stochastic configuration networks for multi-dimensional integral evaluation. Information Sciences, 2022, 601, 323-339.	6.9	10
93	Learning Pseudo Metric for Intelligent Multimedia Data Classification and Retrieval. Journal of Intelligent Manufacturing, 2005, 16, 575-586.	7.3	9
94	Improved randomized learning algorithms for imbalanced and noisy educational data classification. Computing (Vienna/New York), 2019, 101, 571-585.	4.8	9
95	Deep stochastic configuration networks with different random sampling strategies. Information Sciences, 2022, 607, 819-830.	6.9	9
96	Industrial image classification using a randomized neural-net ensemble and feedback mechanism. Neurocomputing, 2016, 173, 708-714.	5.9	8
97	Protein Sequences Classification Using Modular RBF Neural Networks. Lecture Notes in Computer Science, 2002, , 477-486.	1.3	8
98	SVM Classification for Discriminating Cardiovascular Disease Patients from Non-cardiovascular Disease Controls Using Pulse Waveform Variability Analysis. Lecture Notes in Computer Science, 2004, , 109-119.	1.3	8
99	A Further Study on Mining DNA Motifs Using Fuzzy Self-Organizing Maps. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 113-124.	11.3	7
100	Construction of prediction intervals using adaptive neurofuzzy inference systems. Applied Soft Computing Journal, 2018, 72, 579-586.	7.2	7
101	Randomized mixture models for probability density approximation and estimation. Information Sciences, 2018, 467, 135-148.	6.9	7
102	Algebraic properties of singular systems subject to decentralized output feedback. IEEE Transactions on Automatic Control, 2002, 47, 1898-1903.	5.7	6
103	Computational Discovery of Motifs Using Hierarchical Clustering Techniques. , 2008, , .		6
104	Machine learning approach for face image retrieval. Neural Computing and Applications, 2012, 21, 683-694.	5.6	6
105	Real-time optimal control of tracking running for high-speed electric multiple unit. Information Sciences, 2017, 376, 202-215.	6.9	6
106	Robust speed prediction of high-speed trains based on improved echo state networks. Neural Computing and Applications, 2021, 33, 2351-2367.	5.6	6
107	Protein sequences classification using radial basis function (RBF) neural networks. , 0, , .		5
108	ELM-based Multiple Classifier Systems. , 2006, , .		5

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109	Classification of microarray datasets using finite impulse response extreme learning machine for cancer diagnosis. , 2011, , .		5
110	Heterogeneous feature ensemble modeling with stochastic configuration networks for predicting furnace temperature of a municipal solid waste incineration process. Neural Computing and Applications, 2022, 34, 15807-15819.	5.6	5
111	Rank of matrix pencils at infinity and its applications in descriptor systems. , 1997, , .		4
112	An Edge-Preserving Image Reconstruction Using Neural Network. Journal of Mathematical Imaging and Vision, 2001, 14, 117-130.	1.3	4
113	Semantics modeling based image retrieval system using neural networks. , 2005, , .		4
114	iGAPK: Improved GAPK Algorithm for Regulatory DNA Motif Discovery. Lecture Notes in Computer Science, 2010, , 217-225.	1.3	4
115	Virtual Unmodeled Dynamics Modeling for Nonlinear Multivariable Adaptive Control With Decoupling Design. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 342-353.	9.3	4
116	Learning to Survive: Increased Learning Rates by Communication in a Multi-agent System. Lecture Notes in Computer Science, 2003, , 601-611.	1.3	4
117	Robustness for Evaluating Rule€™s Generalization Capability in Data Mining. Lecture Notes in Computer Science, 2003, , 699-709.	1.3	4
118	Trading off between Misclassification, Recognition and Generalization in Data Mining with Continuous Features. Lecture Notes in Computer Science, 2002, , 303-313.	1.3	4
119	Performance of soft sensors based on stochastic configuration networks with nonnegative garrote. Neural Computing and Applications, 2022, 34, 16061-16071.	5.6	4
120	Heuristic rule based neuro-fuzzy approach for adaptive buffer management for Internet-based computing. , 0, , .		3
121	Edge-preserved neural network model for image restoration. Journal of Electronic Imaging, 2001, 10, 735.	0.9	3
122	Learning Pseudo Metric for Multimedia Data Classification and Retrieval. Lecture Notes in Computer Science, 2004, , 1051-1057.	1.3	3
123	Optimal Coalition Structure Based on Particle Swarm Optimization Algorithm in Multi-Agent System. , 2006, , .		3
124	Guest Editorial: Special issue on computational intelligence for industrial data processing and analysis. Neurocomputing, 2015, 169, 358-360.	5.9	3
125	2-D regularized locality preserving projection algorithms for temporospatial feature reduction and its application in industrial data regression. Neurocomputing, 2015, 169, 373-382.	5.9	3
126	Type theory based semantic verification for service composition in cloud computing environments. Information Sciences, 2018, 469, 101-118.	6.9	3

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127	A Randomized Algorithm for Prediction Interval Using RVFL Networks Ensemble. Lecture Notes in Computer Science, 2017, , 51-60.	1.3	3
128	Stochastic configuration networks for imbalanced data classification. International Journal of Machine Learning and Cybernetics, 2022, 13, 2843-2855.	3.6	3
129	Edge-preserving nonlinear image restoration using adaptive components-based radial basis function neural networks. , 0, , .		2
130	<title>Extraction and optimization of classification rules for continuous or mixed-mode data using neural nets</title>. , 2001, , .		2
131	Theoretical Foundation for Nonlinear Edge-Preserving Regularized Learning Image Restoration. Lecture Notes in Computer Science, 2002, , 693-703.	1.3	2
132	Data mining for building neural protein sequence classification systems with improved performance. , 0, , .		2
133	A structure-based approach for multimedia information filtering. Multimedia Tools and Applications, 2006, 29, 73-89.	3.9	2
134	Extraction of classification rules characterized by ellipsoidal regions using soft-computing techniques. International Journal of Systems Science, 2006, 37, 969-980.	5.5	2
135	An Improved Genetic Algorithm for DNA Motif Discovery with Public Domain Information. Lecture Notes in Computer Science, 2009, , 521-528.	1.3	2
136	Automatic localization and annotation of facial features using machine learning techniques. Soft Computing, 2011, 15, 1231-1245.	3.6	2
137	Computational localization of transcription factor binding sites using extreme learning machines. Soft Computing, 2012, 16, 1595-1606.	3.6	2
138	Data mining for energy systems: Review and prospect. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1406.	6.8	2
139	Neural Classification of E.coli Promoters Using Selected DNA Profiles. , 2005, , 51-60.		2
140	Token Identification Using HMM and PPM Models. Lecture Notes in Computer Science, 2003, , 173-185.	1.3	2
141	Data mining for constructing ellipsoidal fuzzy classifier with various input features using GRBF neural networks. , 0, , .		1
142	Pattern learning based image restoration using neural networks. , 0, , .		1
143	Learning similarity for image retrieval with locally spatial information feedback. , 0, , .		1
144	Optimization of MISCORE-Based Motif Identification Systems. , 2009, , .		1

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145	Overlap-Based Similarity Metrics for Motif Search in DNA Sequences. Lecture Notes in Computer Science, 2009, , 465-474.	1.3	1
146	SOMIX: Motifs Discovery in Gene Regulatory Sequences Using Self-Organizing Maps. Lecture Notes in Computer Science, 2010, , 242-249.	1.3	1
147	Fuzzy filtering systems for performing environment improvement of computational DNA motif discovery. , 2010, , .		1
148	Computational discovery of regulatory DNA motifs using evolutionary computation. , 2010, , .		1
149	E-Coli Promoter Recognition Using Neural Networks with Feature Selection. Lecture Notes in Computer Science, 2005, , 61-70.	1.3	1
150	Incomplete multi-view clustering via local and global co-regularization. Science China Information Sciences, 2022, 65, .	4.3	1
151	Robustness of uncertain descriptor systems. , 1997, , .		0
152	Design and analysis of one-step-ahead adaptive neural predictive controller. , 0, , .		0
153	Effect of non-target examples on e.coli promoters recognition using neural networks. , 0, , .		0
154	Multimedia Data Mining for Building Rule-Based Image Retrieval Systems. , 0, , .		0
155	Data Mining for Building Rule-based Fault Diagnosis Systems. , 2006, , .		0
156	Feature Extraction for Face Image Retrieval. , 2008, , .		0
157	Modeling performance enhancement with constrained linear filters. , 2008, , .		0
158	An adiabatic quantum algorithm and its application to DNA motif model discovery. Information Sciences, 2015, 296, 275-281.	6.9	0
159	Neurocomputing for Minimizing Energy Consumption of Real-Time Operating System in the System-on-a-Chip. Lecture Notes in Computer Science, 2006, , 1189-1198.	1.3	0
160	Intelligent Face Image Retrieval Using Eigenpixels and Learning Similarity Metrics. Lecture Notes in Computer Science, 2009, , 792-799.	1.3	0
161	Mining Regulatory Elements in Non-coding Regions of Arabidopsis thaliana. Communications in Computer and Information Science, 2010, , 94-105.	0.5	0