

Dianhui Wang

List of Publications by Year in descending order

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161
papers

5,644
citations

126708

33
h-index

85405

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.	2.3	1,625
2	Stochastic Configuration Networks: Fundamentals and Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 3466-3479.	6.2	379
3	Randomness in neural networks: an overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2017, 7, e1200.	4.6	175
4	Fast decorrelated neural network ensembles with random weights. Information Sciences, 2014, 264, 104-117.	4.0	163
5	Distributed learning for Random Vector Functional-Link networks. Information Sciences, 2015, 301, 271-284.	4.0	134
6	Insights into randomized algorithms for neural networks: Practical issues and common pitfalls. Information Sciences, 2017, 382-383, 170-178.	4.0	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.	7.2	113
8	A Self-Adaptive RBF Neural Network Classifier for Transformer Fault Analysis. IEEE Transactions on Power Systems, 2010, 25, 1350-1360.	4.6	109
9	A decentralized training algorithm for Echo State Networks in distributed big data applications. Neural Networks, 2016, 78, 65-74.	3.3	102
10	Robust stochastic configuration networks with kernel density estimation for uncertain data regression. Information Sciences, 2017, 412-413, 210-222.	4.0	96
11	A robust adaptive neural networks controller for maritime dynamic positioning system. Neurocomputing, 2013, 110, 128-136.	3.5	95
12	Stochastic configuration networks ensemble with heterogeneous features for large-scale data analytics. Information Sciences, 2017, 417, 55-71.	4.0	91
13	Evolutionary extreme learning machine ensembles with size control. Neurocomputing, 2013, 102, 98-110.	3.5	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.	7.2	75
15	Global Convergence of Online BP Training With Dynamic Learning Rate. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 330-341.	7.2	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.	7.2	62
17	A probabilistic learning algorithm for robust modeling using neural networks with random weights. Information Sciences, 2015, 313, 62-78.	4.0	54
18	A neuro-fuzzy approach for diagnosis of antibody deficiency syndrome. Neurocomputing, 2006, 69, 969-974.	3.5	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.	3.5	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.	6.5	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.	4.0	48
22	A fractional-order adaptive regularization primal-dual algorithm for image denoising. <i>Information Sciences</i> , 2015, 296, 147-159.	4.0	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.	1.9	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.	7.2	46
25	Deep stacked stochastic configuration networks for lifelong learning of non-stationary data streams. <i>Information Sciences</i> , 2019, 495, 150-174.	4.0	45
26	On regularizing singular systems by decentralized output feedback. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 148-152.	3.6	43
27	2-D Stochastic Configuration Networks for Image Data Analytics. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 359-372.	6.2	42
28	Effective Deep Attributed Network Representation Learning With Topology Adapted Smoothing. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 5935-5946.	6.2	41
29	Editorial: Randomized algorithms for training neural networks. <i>Information Sciences</i> , 2016, 364-365, 126-128.	4.0	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.	7.2	39
31	Modeling and control compensation of nonlinear friction using adaptive fuzzy systems. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 2445-2457.	4.4	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.	5.9	38
33	Pull-off adhesion prediction of variable thick overlay to the substrate. <i>Automation in Construction</i> , 2018, 85, 10-23.	4.8	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.	4.0	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.	4.0	35
38	High dimensional data regression using Lasso model and neural networks with random weights. Information Sciences, 2016, 372, 505-517.	4.0	33
39	Burning state recognition of rotary kiln using ELMs with heterogeneous features. Neurocomputing, 2013, 102, 144-153.	3.5	32
40	Classification of bioinformatics dataset using finite impulse response extreme learning machine for cancer diagnosis. Neural Computing and Applications, 2013, 22, 457-468.	3.2	32
41	Prediction of component concentrations in sodium aluminate liquor using stochastic configuration networks. Neural Computing and Applications, 2020, 32, 13625-13638.	3.2	32
42	An optimal weight learning machine for handwritten digit image recognition. Signal Processing, 2013, 93, 1624-1638.	2.1	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.	6.5	28
45	Structural properties and poles assignability of LTI singular systems under output feedback. Automatica, 2003, 39, 685-692.	3.0	27
46	Quantum artificial neural networks with applications. Information Sciences, 2015, 290, 1-6.	4.0	27
47	An improved multi-source based soft sensor for measuring cement free lime content. Information Sciences, 2015, 323, 94-105.	4.0	26
48	Bayesian Random Vector Functional-Link Networks for Robust Data Modeling. IEEE Transactions on Cybernetics, 2018, 48, 2049-2059.	6.2	26
49	A comprehensive survey on genetic algorithms for DNA motif prediction. Information Sciences, 2018, 466, 25-43.	4.0	24
50	Enhancing the estimation of plant Jacobian for adaptive neural inverse control. Neurocomputing, 2000, 34, 99-115.	3.5	23
51	An improved algorithm for building self-organizing feedforward neural networks. Neurocomputing, 2017, 262, 28-40.	3.5	23
52	Advances in extreme learning machines (ELM2010). Neurocomputing, 2011, 74, 2411-2412.	3.5	22
53	Efficient saliency detection using convolutional neural networks with feature selection. Information Sciences, 2018, 456, 34-49.	4.0	20
54	Data-Driven PID Controller and Its Application to Pulp Neutralization Process. IEEE Transactions on Control Systems Technology, 2018, 26, 828-841.	3.2	20

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55	Stochastic configuration network ensembles with selective base models. <i>Neural Networks</i> , 2021, 137, 106-118.	3.3	20
56	Improved generalization of neural classifiers with enforced internal representation. <i>Neurocomputing</i> , 2007, 70, 2940-2952.	3.5	19
57	Learning Based Neural Similarity Metrics for Multimedia Data Mining. <i>Soft Computing</i> , 2006, 11, 335-340.	2.1	18
58	SOMEA: self-organizing map based extraction algorithm for DNA motif identification with heterogeneous model. <i>BMC Bioinformatics</i> , 2011, 12, S16.	1.2	18
59	Building feedforward neural networks with random weights for large scale datasets. <i>Expert Systems With Applications</i> , 2018, 106, 233-243.	4.4	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.	2.1	17
61	A local learning algorithm for random weights networks. <i>Knowledge-Based Systems</i> , 2015, 74, 159-166.	4.0	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.	7.2	17
63	Case-based reasoning classifier based on learning pseudo metric retrieval. <i>Expert Systems With Applications</i> , 2017, 89, 91-98.	4.4	17
64	Enhancing semantic image retrieval with limited labeled examples via deep learning. <i>Knowledge-Based Systems</i> , 2019, 163, 252-266.	4.0	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.	3.5	16
66	Estimation of effluent quality using PLS-based extreme learning machines. <i>Neural Computing and Applications</i> , 2013, 22, 509-519.	3.2	16
67	Fuzzy Approach for Semantic Face Image Retrieval. <i>Computer Journal</i> , 2012, 55, 1130-1145.	1.5	15
68	Predicting mill load using partial least squares and extreme learning machines. <i>Soft Computing</i> , 2012, 16, 1585-1594.	2.1	15
69	Distributed stochastic configuration networks with cooperative learning paradigm. <i>Information Sciences</i> , 2020, 540, 1-16.	4.0	15
70	Cascade tracking control of servo motor with robust adaptive fuzzy compensation. <i>Information Sciences</i> , 2021, 569, 450-468.	4.0	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.	7.2	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.	7.2	14

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73	Stochastic configuration network based cascade generalized predictive control of main steam temperature in power plants. Information Sciences, 2022, 587, 123-141.	4.0	14
74	Stochastic configuration networks for self-blast state recognition of glass insulators with adaptive depth and multi-scale representation. Information Sciences, 2022, 604, 61-79.	4.0	14
75	On impulsive modes of linear singular systems subject to decentralized output feedback. IEEE Transactions on Automatic Control, 2003, 48, 1804-1809.	3.6	13
76	Robust stochastic configuration networks for industrial data modelling with Student's-t mixture distribution. Information Sciences, 2022, 607, 493-505.	4.0	13
77	Handling distributed XML queries over large XML data based on MapReduce framework. Information Sciences, 2018, 453, 1-20.	4.0	12
78	A hybrid regularization approach for random vector functional-link networks. Expert Systems With Applications, 2020, 140, 112912.	4.4	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. Neurocomputing, 2005, 67, 363-368.	3.5	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. Expert Systems With Applications, 2013, 40, 975-983.	4.4	11
83	Trustworthiness evaluation and retrieval-based revision method for case-based reasoning classifiers. Expert Systems With Applications, 2015, 42, 8006-8013.	4.4	11
84	Fuzzy rule-based models with randomized development mechanisms. Fuzzy Sets and Systems, 2019, 361, 71-87.	1.6	11
85	Observer-Based Composite Adaptive Type-2 Fuzzy Control for PEMFC Air Supply Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 515-529.	6.5	11
86	Graph convolutional autoencoders with co-learning of graph structure and node attributes. Pattern Recognition, 2022, 121, 108215.	5.1	11
87	Hardware- <i>software</i> partitioning of real-time operating systems using Hopfield neural networks. Neurocomputing, 2006, 69, 2379-2384.	3.5	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. BMC Systems Biology, 2012, 6, S4.	3.0	10
90	Multiview Spectral Clustering via Robust Subspace Segmentation. IEEE Transactions on Cybernetics, 2022, 52, 2467-2476.	6.2	10

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91	Deep stochastic configuration networks with optimised model and hyper-parameters. Information Sciences, 2022, 600, 431-441.	4.0	10
92	Stochastic configuration networks for multi-dimensional integral evaluation. Information Sciences, 2022, 601, 323-339.	4.0	10
93	Learning Pseudo Metric for Intelligent Multimedia Data Classification and Retrieval. Journal of Intelligent Manufacturing, 2005, 16, 575-586.	4.4	9
94	Improved randomized learning algorithms for imbalanced and noisy educational data classification. Computing (Vienna/New York), 2019, 101, 571-585.	3.2	9
95	Deep stochastic configuration networks with different random sampling strategies. Information Sciences, 2022, 607, 819-830.	4.0	9
96	Industrial image classification using a randomized neural-net ensemble and feedback mechanism. Neurocomputing, 2016, 173, 708-714.	3.5	8
97	Protein Sequences Classification Using Modular RBF Neural Networks. Lecture Notes in Computer Science, 2002, , 477-486.	1.0	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.	1.0	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.	7.2	7
100	Construction of prediction intervals using adaptive neurofuzzy inference systems. Applied Soft Computing Journal, 2018, 72, 579-586.	4.1	7
101	Randomized mixture models for probability density approximation and estimation. Information Sciences, 2018, 467, 135-148.	4.0	7
102	Algebraic properties of singular systems subject to decentralized output feedback. IEEE Transactions on Automatic Control, 2002, 47, 1898-1903.	3.6	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.	3.2	6
105	Real-time optimal control of tracking running for high-speed electric multiple unit. Information Sciences, 2017, 376, 202-215.	4.0	6
106	Robust speed prediction of high-speed trains based on improved echo state networks. Neural Computing and Applications, 2021, 33, 2351-2367.	3.2	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.	3.2	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.	0.8	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.	1.0	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.	5.9	4
116	Learning to Survive: Increased Learning Rates by Communication in a Multi-agent System. Lecture Notes in Computer Science, 2003, , 601-611.	1.0	4
117	Robustness for Evaluating Rule€™s Generalization Capability in Data Mining. Lecture Notes in Computer Science, 2003, , 699-709.	1.0	4
118	Trading off between Misclassification, Recognition and Generalization in Data Mining with Continuous Features. Lecture Notes in Computer Science, 2002, , 303-313.	1.0	4
119	Performance of soft sensors based on stochastic configuration networks with nonnegative garrote. Neural Computing and Applications, 2022, 34, 16061-16071.	3.2	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.	0.5	3
122	Learning Pseudo Metric for Multimedia Data Classification and Retrieval. Lecture Notes in Computer Science, 2004, , 1051-1057.	1.0	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.	3.5	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.	3.5	3
126	Type theory based semantic verification for service composition in cloud computing environments. Information Sciences, 2018, 469, 101-118.	4.0	3

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127	A Randomized Algorithm for Prediction Interval Using RVFL Networks Ensemble. Lecture Notes in Computer Science, 2017, , 51-60.	1.0	3
128	Stochastic configuration networks for imbalanced data classification. International Journal of Machine Learning and Cybernetics, 2022, 13, 2843-2855.	2.3	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.	1.0	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.	2.6	2
134	Extraction of classification rules characterized by ellipsoidal regions using soft-computing techniques. International Journal of Systems Science, 2006, 37, 969-980.	3.7	2
135	An Improved Genetic Algorithm for DNA Motif Discovery with Public Domain Information. Lecture Notes in Computer Science, 2009, , 521-528.	1.0	2
136	Automatic localization and annotation of facial features using machine learning techniques. Soft Computing, 2011, 15, 1231-1245.	2.1	2
137	Computational localization of transcription factor binding sites using extreme learning machines. Soft Computing, 2012, 16, 1595-1606.	2.1	2
138	Data mining for energy systems: Review and prospect. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1406.	4.6	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.	1.0	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.	1.0	1
146	SOMIX: Motifs Discovery in Gene Regulatory Sequences Using Self-Organizing Maps. Lecture Notes in Computer Science, 2010, , 242-249.	1.0	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.	1.0	1
150	Incomplete multi-view clustering via local and global co-regularization. Science China Information Sciences, 2022, 65, .	2.7	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.	4.0	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.	1.0	0
160	Intelligent Face Image Retrieval Using Eigenpixels and Learning Similarity Metrics. Lecture Notes in Computer Science, 2009, , 792-799.	1.0	0
161	Mining Regulatory Elements in Non-coding Regions of Arabidopsis thaliana. Communications in Computer and Information Science, 2010, , 94-105.	0.4	0