

# Jian Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

2,609  
citations

147566

31  
h-index

205818

48  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review and performance comparison of SVM- and ELM-based classifiers. <i>Neurocomputing</i> , 2014, 128, 507-516.	3.5	169
2	A review on extreme learning machine. <i>Multimedia Tools and Applications</i> , 2022, 81, 41611-41660.	2.6	143
3	Convergence analysis of online gradient method for BP neural networks. <i>Neural Networks</i> , 2011, 24, 91-98.	3.3	134
4	Fractional-order gradient descent learning of BP neural networks with Caputo derivative. <i>Neural Networks</i> , 2017, 89, 19-30.	3.3	128
5	Feature Selection for Neural Networks Using Group Lasso Regularization. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, 32, 659-673.	4.0	113
6	Application of extreme learning machine and neural networks in total organic carbon content prediction in organic shale with wire line logs. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 687-702.	2.1	100
7	Training effective deep reinforcement learning agents for real-time life-cycle production optimization. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109766.	2.1	84
8	A Novel Pruning Algorithm for Smoothing Feedforward Neural Networks Based on Group Lasso Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2012-2024.	7.2	74
9	History Matching of Naturally Fractured Reservoirs Using a Deep Sparse Autoencoder. <i>SPE Journal</i> , 2021, 26, 1700-1721.	1.7	72
10	Feature Selection Using a Neural Network With Group Lasso Regularization and Controlled Redundancy. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 1110-1123.	7.2	71
11	Affine Transformation-Enhanced Multifactorial Optimization for Heterogeneous Problems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 6217-6231.	6.2	60
12	Learning Optimized Structure of Neural Networks by Hidden Node Pruning With $L_{1}$ Regularization. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 1333-1346.	6.2	55
13	A recalling-enhanced recurrent neural network: Conjugate gradient learning algorithm and its convergence analysis. <i>Information Sciences</i> , 2020, 519, 273-288.	4.0	54
14	Batch gradient method with smoothing regularization for training of feedforward neural networks. <i>Neural Networks</i> , 2014, 50, 72-78.	3.3	53
15	Multifidelity Genetic Transfer: An Efficient Framework for Production Optimization. <i>SPE Journal</i> , 2021, 26, 1614-1635.	1.7	53
16	Efficient hierarchical surrogate-assisted differential evolution for high-dimensional expensive optimization. <i>Information Sciences</i> , 2021, 542, 228-246.	4.0	48
17	Unsupervised feature selection via adaptive autoencoder with redundancy control. <i>Neural Networks</i> , 2022, 150, 87-101.	3.3	47
18	Deterministic convergence of conjugate gradient method for feedforward neural networks. <i>Neurocomputing</i> , 2011, 74, 2368-2376.	3.5	45

#	ARTICLE	IF	CITATIONS
19	A novel conjugate gradient method with generalized Armijo search for efficient training of feedforward neural networks. <i>Neurocomputing</i> , 2018, 275, 308-316.	3.5	45
20	An Efficient Approach for Real-Time Prediction of Rate of Penetration in Offshore Drilling. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-13.	0.6	44
21	Convergence analysis of BP neural networks via sparse response regularization. <i>Applied Soft Computing Journal</i> , 2017, 61, 354-363.	4.1	43
22	Convergence of Cyclic and Almost-Cyclic Learning With Momentum for Feedforward Neural Networks. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 1297-1306.	4.8	42
23	Sensitivity analysis of Takagi-Sugeno fuzzy neural network. <i>Information Sciences</i> , 2022, 582, 725-749.	4.0	40
24	A Cluster-Based Competitive Particle Swarm Optimizer with a Sparse Truncation Operator for Multi-Objective Optimization. <i>Swarm and Evolutionary Computation</i> , 2022, 71, 101083.	4.5	40
25	Computational properties and convergence analysis of BPNN for cyclic and almost cyclic learning with penalty. <i>Neural Networks</i> , 2012, 33, 127-135.	3.3	36
26	Convergence analyses on sparse feedforward neural networks via group lasso regularization. <i>Information Sciences</i> , 2017, 381, 250-269.	4.0	36
27	Weight Noise Injection-Based MLPs With Group Lasso Penalty: Asymptotic Convergence and Application to Node Pruning. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 4346-4364.	6.2	35
28	A radial basis function surrogate model assisted evolutionary algorithm for high-dimensional expensive optimization problems. <i>Applied Soft Computing Journal</i> , 2022, 116, 108353.	4.1	35
29	Nonstationary fuzzy neural network based on FCMnet clustering and a modified CG method with Armijo-type rule. <i>Information Sciences</i> , 2022, 608, 313-338.	4.0	35
30	Fully complex conjugate gradient-based neural networks using Wirtinger calculus framework: Deterministic convergence and its application. <i>Neural Networks</i> , 2019, 115, 50-64.	3.3	34
31	A global neural network learning machine: Coupled integer and fractional calculus operator with an adaptive learning scheme. <i>Neural Networks</i> , 2021, 143, 386-399.	3.3	32
32	A modified interval type-2 Takagi-Sugeno fuzzy neural network and its convergence analysis. <i>Pattern Recognition</i> , 2022, 131, 108861.	5.1	31
33	Conjugate gradient-based Takagi-Sugeno fuzzy neural network parameter identification and its convergence analysis. <i>Neurocomputing</i> , 2019, 364, 168-181.	3.5	30
34	Brittleness index prediction in shale gas reservoirs based on efficient network models. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 673-685.	2.1	29
35	Convergence and objective functions of noise-injected multilayer perceptrons with hidden multipliers. <i>Neurocomputing</i> , 2021, 452, 796-812.	3.5	29
36	A new method for rock brittleness evaluation in tight oil formation from conventional logs and petrophysical data. <i>Journal of Petroleum Science and Engineering</i> , 2017, 151, 169-182.	2.1	28

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37	Fractional-order global optimal backpropagation machine trained by an improved fractional-order steepest descent method. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 809-833.	1.5	28
38	Bilateral sensitivity analysis: a better understanding of a neural network. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 2135-2152.	2.3	27
39	Use of Overlapping Group LASSO Sparse Deep Belief Network to Discriminate Parkinson's Disease and Normal Control. <i>Frontiers in Neuroscience</i> , 2019, 13, 396.	1.4	24
40	Multiscale-Network Structure Inversion of Fractured Media Based on a Hierarchical-Parameterization and Data-Driven Evolutionary-Optimization Method. <i>SPE Journal</i> , 2020, 25, 2729-2748.	1.7	23
41	Convergence Analysis of Caputo-Type Fractional Order Complex-Valued Neural Networks. <i>IEEE Access</i> , 2017, 5, 14560-14571.	2.6	21
42	Convergence of a modified gradient-based learning algorithm with penalty for single-hidden-layer feed-forward networks. <i>Neural Computing and Applications</i> , 2020, 32, 2445-2456.	3.2	21
43	An Input Weights Dependent Complex-Valued Learning Algorithm Based on Wirtinger Calculus. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 2920-2932.	5.9	19
44	Boundedness and convergence analysis of weight elimination for cyclic training of neural networks. <i>Neural Networks</i> , 2016, 82, 49-61.	3.3	18
45	A parallel feature selection method study for text classification. <i>Neural Computing and Applications</i> , 2017, 28, 513-524.	3.2	18
46	A modified gradient learning algorithm with smoothing L1/2 regularization for Takagi-Sugeno fuzzy models. <i>Neurocomputing</i> , 2014, 138, 229-237.	3.5	17
47	An Enhanced Fractional Least Mean Square Filter Encountering the Specific Unknown System Vector. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 1912-1916.	2.2	17
48	A novel hybrid recurrent convolutional network for surrogate modeling of history matching and uncertainty quantification. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 110109.	2.1	17
49	Surrogate-assisted differential evolution for production optimization with nonlinear state constraints. <i>Journal of Petroleum Science and Engineering</i> , 2020, 194, 107441.	2.1	15
50	Prediction of Field Saturations Using a Fully Convolutional Network Surrogate. <i>SPE Journal</i> , 2021, , 1-13.	1.7	15
51	A Polak-Ribière-Polyak Conjugate Gradient-Based Neuro-Fuzzy Network and its Convergence. <i>IEEE Access</i> , 2018, 6, 41551-41565.	2.6	14
52	A topology-based single-pool decomposition framework for large-scale global optimization. <i>Applied Soft Computing Journal</i> , 2020, 92, 106295.	4.1	14
53	Parallel Feature Selection Based on MapReduce. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 299-306.	0.3	13
54	A pruning algorithm with L 1/2 regularizer for extreme learning machine. <i>Journal of Zhejiang University: Science C</i> , 2014, 15, 119-125.	0.7	13

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55	Construction and optimization of adaptive well pattern based on reservoir anisotropy and uncertainty. <i>Journal of Petroleum Science and Engineering</i> , 2019, 181, 106252.	2.1	12
56	Data intensive parallel feature selection method study. , 2014, , .		11
57	Relaxed conditions for convergence of batch BPAP for feedforward neural networks. <i>Neurocomputing</i> , 2015, 153, 174-179.	3.5	11
58	Self-adaptive multifactorial evolutionary algorithm for multitasking production optimization. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108900.	2.1	11
59	A double-model differential evolution for constrained waterflooding production optimization. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109059.	2.1	10
60	Fractional Approximation of Broad Learning System. <i>IEEE Transactions on Cybernetics</i> , 2024, 54, 811-824.	6.2	10
61	Fractional-Order Retinex for Adaptive Contrast Enhancement of Under-Exposed Traffic Images. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021, 13, 149-159.	2.6	8
62	A modified conjugate gradient-based Elman neural network. <i>Cognitive Systems Research</i> , 2021, 68, 62-72.	1.9	8
63	A distributed surrogate system assisted differential evolutionary algorithm for computationally expensive history matching problems. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 110029.	2.1	7
64	An Improved Ant Colony Optimization Algorithm Based on Fractional Order Memory for Traveling Salesman Problems. , 2019, , .		6
65	A Caputo-Type Fractional-Order Gradient Descent Learning of BP Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 547-554.	1.0	6
66	Boundedness and convergence of MPN for cyclic and almost cyclic learning with penalty. , 2011, , .		5
67	Support Vector Machine-Based Model for 2.5-5.2 GHz CMOS Power Amplifier. <i>Micromachines</i> , 2022, 13, 1012.	1.4	5
68	A Slime Mold Fractional-Order Ant Colony Optimization Algorithm for Travelling Salesman Problems. <i>Lecture Notes in Computer Science</i> , 2021, , 322-332.	1.0	4
69	Convergence Analysis of Multilayer Feedforward Networks Trained with Penalty Terms: A Review. <i>MEDICRIT Revista De Medicina Cratica</i> , 2015, 7, 89-103.	0.1	3
70	Image steganalysis based on convolutional neural network and feature selection. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5469.	1.4	3
71	Structure Optimization of Neural Networks with L <sub>1</sub> /L <sub>2</sub> Regularization on Gates. , 2018, , .		2
72	An Efficient Algorithm for Complex-Valued Neural Networks Through Training Input Weights. <i>Lecture Notes in Computer Science</i> , 2017, , 150-159.	1.0	2

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73	Convergence Analysis of Inverse Iterative Neural Networks with L2 Penalty. MEDICRIT Revista De Medicina Cr�tica, 2016, 8, 85-98.	0.1	1
74	A New Parameter Identification Method for Type-1 TS Fuzzy Neural Network. Lecture Notes in Computer Science, 2018, , 200-207.	1.0	1
75	Unsupervised Feature Selection Using RBF Autoencoder. Lecture Notes in Computer Science, 2019, , 48-57.	1.0	1
76	Boundedness of Weight Elimination for BP Neural Networks. Lecture Notes in Computer Science, 2014, , 155-165.	1.0	1
77	A Conjugate Gradient-Based Efficient Algorithm for Training Single-Hidden-Layer Neural Networks. Lecture Notes in Computer Science, 2016, , 470-478.	1.0	0
78	Computational Properties of Cyclic and Almost-Cyclic Learning with Momentum for Feedforward Neural Networks. Lecture Notes in Computer Science, 2012, , 545-554.	1.0	0
79	An Improved Conjugate Gradient Neural Networks Based on a Generalized Armijo Search Method. Lecture Notes in Computer Science, 2017, , 131-139.	1.0	0
80	Fully Complex-Valued Wirtinger Conjugate Neural Networks with Generalized Armijo Search. Lecture Notes in Computer Science, 2018, , 123-133.	1.0	0
81	Redundancy-Controlled Feature Selection for Fuzzy Neural Networks. , 2021, , .		0