

Hong Qu

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,442
citations

393982

19
h-index

360668

35
g-index

68
all docs

68
docs citations

68
times ranked

1196
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved genetic algorithm with co-evolutionary strategy for global path planning of multiple mobile robots. <i>Neurocomputing</i> , 2013, 120, 509-517.	3.5	186
2	A Novel Deep Learning-Based Collaborative Filtering Model for Recommendation System. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1084-1096.	6.2	147
3	Real-Time Robot Path Planning Based on a Modified Pulse-Coupled Neural Network Model. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1724-1739.	4.8	136
4	A deep reinforcement learning based long-term recommender system. <i>Knowledge-Based Systems</i> , 2021, 213, 106706.	4.0	61
5	A novel coordinated path planning method using k-degree smoothing for multi-UAVs. <i>Applied Soft Computing Journal</i> , 2016, 48, 182-192.	4.1	55
6	Rectified Linear Postsynaptic Potential Function for Backpropagation in Deep Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 1947-1958.	7.2	55
7	Supervised learning in spiking neural networks with noise-threshold. <i>Neurocomputing</i> , 2017, 219, 333-349.	3.5	51
8	A Highly Effective and Robust Membrane Potential-Driven Supervised Learning Method for Spiking Neurons. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 123-137.	7.2	43
9	Efficient Training of Supervised Spiking Neural Network via Accurate Synaptic-Efficiency Adjustment Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 1411-1424.	7.2	39
10	EMPD: An Efficient Membrane Potential Driven Supervised Learning Algorithm for Spiking Neurons. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 151-162.	2.6	37
11	Supervised learning in spiking neural networks with synaptic delay-weight plasticity. <i>Neurocomputing</i> , 2020, 409, 103-118.	3.5	36
12	Attention based collaborative filtering. <i>Neurocomputing</i> , 2018, 311, 88-98.	3.5	35
13	Evolving Scale-Free Networks by Poisson Process: Modeling and Degree Distribution. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 1144-1155.	6.2	28
14	Deep Dilation on Multimodality Time Series for Human Activity Recognition. <i>IEEE Access</i> , 2018, 6, 53381-53396.	2.6	27
15	Efficient Shortest-Path-Tree Computation in Network Routing Based on Pulse-Coupled Neural Networks. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 995-1010.	6.2	26
16	Multi-Type UAVs Cooperative Task Allocation Under Resource Constraints. <i>IEEE Access</i> , 2018, 6, 17841-17850.	2.6	25
17	A new algorithm for finding the shortest paths using PCNNs. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 1220-1229.	2.5	23
18	A columnar competitive model for solving multi-traveling salesman problem. <i>Chaos, Solitons and Fractals</i> , 2007, 31, 1009-1019.	2.5	22

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19	A modified pulse coupled neural network for shortest-path problem. <i>Neurocomputing</i> , 2009, 72, 3028-3033.	3.5	22
20	Deep Dilated Convolution on Multimodality Time Series for Human Activity Recognition. , 2018, , .		22
21	An Efficient Threshold-Driven Aggregate-Label Learning Algorithm for Multimodal Information Processing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020, 14, 592-602.	7.3	22
22	Classification of Alzheimer's Disease Using Deep Convolutional Spiking Neural Network. <i>Neural Processing Letters</i> , 2021, 53, 2649-2663.	2.0	20
23	Computing k shortest paths using modified pulse-coupled neural network. <i>Neurocomputing</i> , 2015, 149, 1162-1176.	3.5	19
24	Improved perception-based spiking neuron learning rule for real-time user authentication. <i>Neurocomputing</i> , 2015, 151, 310-318.	3.5	19
25	$H = \begin{matrix} \text{estimation for stochastic semi-Markovian switching CVNNs with missing measurements and mode-dependent delays. } \end{matrix}$ <i>Neural Networks</i> , 2021, 141, 281-293.	3.3	19
26	Efficient training of supervised spiking neural networks via the normalized perceptron based learning rule. <i>Neurocomputing</i> , 2017, 241, 152-163.	3.5	17
27	Weakly supervised image classification and pointwise localization with graph convolutional networks. <i>Pattern Recognition</i> , 2021, 109, 107596.	5.1	17
28	Deep Reinforcement Learning Framework for Category-Based Item Recommendation. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 12028-12041.	6.2	17
29	Improving local minima of columnar competitive model for TSPs. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006, 53, 1353-1362.	0.1	16
30	Bag of meta-words: A novel method to represent document for the sentiment classification. <i>Expert Systems With Applications</i> , 2018, 113, 33-43.	4.4	16
31	An Efficient Supervised Training Algorithm for Multilayer Spiking Neural Networks. <i>PLoS ONE</i> , 2016, 11, e0150329.	1.1	16
32	Multi-source sequential knowledge regression by using transfer RNN units. <i>Neural Networks</i> , 2019, 119, 151-161.	3.3	14
33	Highest Degree Likelihood Search Algorithm Using a State Transition Matrix for Complex Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014, 61, 2941-2950.	3.5	13
34	Shortest path computation using pulse-coupled neural networks with restricted autowave. <i>Knowledge-Based Systems</i> , 2016, 114, 1-11.	4.0	13
35	First Error-Based Supervised Learning Algorithm for Spiking Neural Networks. <i>Frontiers in Neuroscience</i> , 2019, 13, 559.	1.4	11
36	Subnormal Distribution Derived From Evolving Networks With Variable Elements. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 2556-2568.	6.2	10

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37	Supervised Learning in Multilayer Spiking Neural Networks With Spike Temporal Error Backpropagation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10141-10153.	7.2	10
38	A Winner-Take-All Neural Networks of N Linear Threshold Neurons without Self-Excitatory Connections. Neural Processing Letters, 2009, 29, 143-154.	2.0	9
39	An Efficient Deep Learning Model to Infer User Demographic Information From Ratings. IEEE Access, 2019, 7, 53125-53135.	2.6	7
40	A new recursive least squares-based learning algorithm for spiking neurons. Neural Networks, 2021, 138, 110-125.	3.3	7
41	A novel neural network method for shortest path tree computation. Applied Soft Computing Journal, 2012, 12, 3246-3259.	4.1	6
42	Gradual Surrogate Gradient Learning in Deep Spiking Neural Networks. , 2022, , .		6
43	Computing \$\$\$ k shortest paths from a source node to each other node. Soft Computing, 2015, 19, 2391-2402.	2.1	5
44	Efficient and Robust Supervised Learning Algorithm for Spiking Neural Networks. Sensing and Imaging, 2018, 19, 1.	1.0	5
45	The maximum points-based supervised learning rule for spiking neural networks. Soft Computing, 2019, 23, 10187-10198.	2.1	5
46	A Maximum Divergence Approach to Optimal Policy in Deep Reinforcement Learning. IEEE Transactions on Cybernetics, 2023, 53, 1499-1510.	6.2	5
47	Improving neural machine translation using gated state network and focal adaptive attention network. Neural Computing and Applications, 2021, 33, 15955-15967.	3.2	5
48	A novel fault-tolerant quantum divider and its simulation. Quantum Information Processing, 2022, 21, .	1.0	5
49	An Intelligent Knowledge Extraction Framework for Recognizing Identification Information From Real-World ID Card Images. IEEE Access, 2019, 7, 165448-165457.	2.6	4
50	A New Supervised Learning Algorithm for Spiking Neurons. Proceedings in Adaptation, Learning and Optimization, 2015, , 171-184.	1.5	4
51	An end-to-end functional spiking model for sequential feature learning. Knowledge-Based Systems, 2020, 195, 105643.	4.0	3
52	A Simple Graph Neural Network via Layer Sniffer. , 2022, , .		3
53	A New Deep Neural Network Based Learning to Rank Method for Information Retrieval. , 2018, , .		2
54	Spatial division networks for weakly supervised detection. Neural Computing and Applications, 2021, 33, 4965-4978.	3.2	2

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55	Summarization With Self-Aware Context Selecting Mechanism. IEEE Transactions on Cybernetics, 2022, 52, 5828-5841.	6.2	2
56	Bio-inspired Model Based on Global-Local Hybrid Learning in Spiking Neural Network. , 2021, , .		2
57	Continuous attractors of a class of recurrent neural networks without lateral inhibition. , 2008, , .		1
58	An Improved Search Algorithm Based on Path Compression for Complex Network. , 2013, , .		1
59	Mutual Constraint Learning for Weakly Supervised Object Detection. , 2019, , .		1
60	A Fast Precise-Spike and Weight-Comparison Based Learning Approach for Evolving Spiking Neural Networks. Lecture Notes in Computer Science, 2017, , 797-804.	1.0	1
61	An Attention-Based Interactive Learning-to-Rank Model for Document Retrieval. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5770-5782.	5.9	1
62	Solving TSP using Lotka-Volterra neural networks without self-excitatory. , 2008, , .		0
63	Convergence analysis of background neural networks with two subnetworks. , 2008, , .		0
64	ERMPD: An efficient and robustness membrane potential driven supervised learning in spiking neural networks. , 2017, , .		0
65	A Dynamic Region Generation Algorithm for Image Segmentation Based on Spiking Neural Network. Lecture Notes in Computer Science, 2017, , 816-824.	1.0	0
66	Weakly-supervised character-level convolutional neural networks for text classification. , 2020, , .		0
67	Sequential multi-head attention for entity-based relational neural networks. Expert Systems, 2022, 39, .	2.9	0