

# Hong Qu

## List of Publications by Year in descending order

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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	A Maximum Divergence Approach to Optimal Policy in Deep Reinforcement Learning. IEEE Transactions on Cybernetics, 2023, 53, 1499-1510.	6.2	5
2	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
3	Summarization With Self-Aware Context Selecting Mechanism. IEEE Transactions on Cybernetics, 2022, 52, 5828-5841.	6.2	2
4	Deep Reinforcement Learning Framework for Category-Based Item Recommendation. IEEE Transactions on Cybernetics, 2022, 52, 12028-12041.	6.2	17
5	Rectified Linear Postsynaptic Potential Function for Backpropagation in Deep Spiking Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1947-1958.	7.2	55
6	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
7	Sequential multi-headed attention for entity-based relational neural networks. Expert Systems, 2022, 39, .	2.9	0
8	Gradual Surrogate Gradient Learning in Deep Spiking Neural Networks. , 2022, , .		6
9	A Simple Graph Neural Network via Layer Sniffer. , 2022, , .		3
10	A novel fault-tolerant quantum divider and its simulation. Quantum Information Processing, 2022, 21, .	1.0	5
11	Weakly supervised image classification and pointwise localization with graph convolutional networks. Pattern Recognition, 2021, 109, 107596.	5.1	17
12	Spatial division networks for weakly supervised detection. Neural Computing and Applications, 2021, 33, 4965-4978.	3.2	2
13	A deep reinforcement learning based long-term recommender system. Knowledge-Based Systems, 2021, 213, 106706.	4.0	61
14	Classification of Alzheimer's Disease Using Deep Convolutional Spiking Neural Network. Neural Processing Letters, 2021, 53, 2649-2663.	2.0	20
15	A new recursive least squares-based learning algorithm for spiking neurons. Neural Networks, 2021, 138, 110-125.	3.3	7
16	Bio-inspired Model Based on Global-Local Hybrid Learning in Spiking Neural Network. , 2021, , .		2
17	$H \sim \hat{z}$ estimation for stochastic semi-Markovian switching CVNNs with missing measurements and mode-dependent delays. Neural Networks, 2021, 141, 281-293.	3.3	19
18	Improving neural machine translation using gated state network and focal adaptive attention network. Neural Computing and Applications, 2021, 33, 15955-15967.	3.2	5

#	ARTICLE	IF	CITATIONS
19	An end-to-end functional spiking model for sequential feature learning. Knowledge-Based Systems, 2020, 195, 105643.	4.0	3
20	An Efficient Threshold-Driven Aggregate-Label Learning Algorithm for Multimodal Information Processing. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 592-602.	7.3	22
21	Supervised learning in spiking neural networks with synaptic delay-weight plasticity. Neurocomputing, 2020, 409, 103-118.	3.5	36
22	Weakly-supervised character-level convolutional neural networks for text classification. , 2020, , .		0
23	A Highly Effective and Robust Membrane Potential-Driven Supervised Learning Method for Spiking Neurons. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 123-137.	7.2	43
24	An Intelligent Knowledge Extraction Framework for Recognizing Identification Information From Real-World ID Card Images. IEEE Access, 2019, 7, 165448-165457.	2.6	4
25	Multi-source sequential knowledge regression by using transfer RNN units. Neural Networks, 2019, 119, 151-161.	3.3	14
26	First Error-Based Supervised Learning Algorithm for Spiking Neural Networks. Frontiers in Neuroscience, 2019, 13, 559.	1.4	11
27	An Efficient Deep Learning Model to Infer User Demographic Information From Ratings. IEEE Access, 2019, 7, 53125-53135.	2.6	7
28	Mutual Constraint Learning for Weakly Supervised Object Detection. , 2019, , .		1
29	The maximum points-based supervised learning rule for spiking neural networks. Soft Computing, 2019, 23, 10187-10198.	2.1	5
30	A Novel Deep Learning-Based Collaborative Filtering Model for Recommendation System. IEEE Transactions on Cybernetics, 2019, 49, 1084-1096.	6.2	147
31	Efficient and Robust Supervised Learning Algorithm for Spiking Neural Networks. Sensing and Imaging, 2018, 19, 1.	1.0	5
32	Multi-Type UAVs Cooperative Task Allocation Under Resource Constraints. IEEE Access, 2018, 6, 17841-17850.	2.6	25
33	EMPD: An Efficient Membrane Potential Driven Supervised Learning Algorithm for Spiking Neurons. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 151-162.	2.6	37
34	Subnormal Distribution Derived From Evolving Networks With Variable Elements. IEEE Transactions on Cybernetics, 2018, 48, 2556-2568.	6.2	10
35	A New Deep Neural Network Based Learning to Rank Method for Information Retrieval. , 2018, , .		2
36	Deep Dilation on Multimodality Time Series for Human Activity Recognition. IEEE Access, 2018, 6, 53381-53396.	2.6	27

#	ARTICLE	IF	CITATIONS
37	Deep Dilated Convolution on Multimodality Time Series for Human Activity Recognition. , 2018, , .		22
38	Attention based collaborative filtering. Neurocomputing, 2018, 311, 88-98.	3.5	35
39	Bag of meta-words: A novel method to represent document for the sentiment classification. Expert Systems With Applications, 2018, 113, 33-43.	4.4	16
40	Efficient Training of Supervised Spiking Neural Network via Accurate Synaptic-Efficiency Adjustment Method. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1411-1424.	7.2	39
41	Efficient training of supervised spiking neural networks via the normalized perceptron based learning rule. Neurocomputing, 2017, 241, 152-163.	3.5	17
42	Supervised learning in spiking neural networks with noise-threshold. Neurocomputing, 2017, 219, 333-349.	3.5	51
43	ERMPD: An efficient and robustness membrane potential driven supervised learning in spiking neural networks. , 2017, , .		0
44	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
45	A Dynamic Region Generation Algorithm for Image Segmentation Based on Spiking Neural Network. Lecture Notes in Computer Science, 2017, , 816-824.	1.0	0
46	Shortest path computation using pulse-coupled neural networks with restricted autowave. Knowledge-Based Systems, 2016, 114, 1-11.	4.0	13
47	A novel coordinated path planning method using k-degree smoothing for multi-UAVs. Applied Soft Computing Journal, 2016, 48, 182-192.	4.1	55
48	Evolving Scale-Free Networks by Poisson Process: Modeling and Degree Distribution. IEEE Transactions on Cybernetics, 2016, 46, 1144-1155.	6.2	28
49	An Efficient Supervised Training Algorithm for Multilayer Spiking Neural Networks. PLoS ONE, 2016, 11, e0150329.	1.1	16
50	Computing $k$ shortest paths from a source node to each other node. Soft Computing, 2015, 19, 2391-2402.	2.1	5
51	Computing $k$ shortest paths using modified pulse-coupled neural network. Neurocomputing, 2015, 149, 1162-1176.	3.5	19
52	Improved perception-based spiking neuron learning rule for real-time user authentication. Neurocomputing, 2015, 151, 310-318.	3.5	19
53	A New Supervised Learning Algorithm for Spiking Neurons. Proceedings in Adaptation, Learning and Optimization, 2015, , 171-184.	1.5	4
54	Highest Degree Likelihood Search Algorithm Using a State Transition Matrix for Complex Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2941-2950.	3.5	13

#	ARTICLE	IF	CITATIONS
55	An Improved Search Algorithm Based on Path Compression for Complex Network. , 2013, , .		1
56	Efficient Shortest-Path-Tree Computation in Network Routing Based on Pulse-Coupled Neural Networks. IEEE Transactions on Cybernetics, 2013, 43, 995-1010.	6.2	26
57	An improved genetic algorithm with co-evolutionary strategy for global path planning of multiple mobile robots. Neurocomputing, 2013, 120, 509-517.	3.5	186
58	A novel neural network method for shortest path tree computation. Applied Soft Computing Journal, 2012, 12, 3246-3259.	4.1	6
59	Real-Time Robot Path Planning Based on a Modified Pulse-Coupled Neural Network Model. IEEE Transactions on Neural Networks, 2009, 20, 1724-1739.	4.8	136
60	A modified pulse coupled neural network for shortest-path problem. Neurocomputing, 2009, 72, 3028-3033.	3.5	22
61	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
62	Solving TSP using Lotka-Volterra neural networks without self-excitatory. , 2008, , .		0
63	Continuous attractors of a class of recurrent neural networks without lateral inhibition. , 2008, , .		1
64	Convergence analysis of background neural networks with two subnetworks. , 2008, , .		0
65	A columnar competitive model for solving multi-traveling salesman problem. Chaos, Solitons and Fractals, 2007, 31, 1009-1019.	2.5	22
66	A new algorithm for finding the shortest paths using PCNNs. Chaos, Solitons and Fractals, 2007, 33, 1220-1229.	2.5	23
67	Improving local minima of columnar competitive model for TSPs. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 1353-1362.	0.1	16