Guoqi

List of Publications by Year
in descending order

44 papers	1,845 citations	471509 17 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	1782 citing authors

#	Article	IF	Citations
1	Towards artificial general intelligence with hybrid Tianjic chip architecture. Nature, 2019, 572, 106-111.	27.8	517
2	CIFAR10-DVS: An Event-Stream Dataset for Object Classification. Frontiers in Neuroscience, 2017, 11, 309.	2.8	187
3	Rethinking the performance comparison between SNNS and ANNS. Neural Networks, 2020, 121, 294-307.	5.9	131
4	GXNOR-Net: Training deep neural networks with ternary weights and activations without full-precision memory under a unified discretization framework. Neural Networks, 2018, 100, 49-58.	5.9	105
5	$L1$ -Norm Batch Normalization for Efficient Training of Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2043-2051.	11.3	90
6	Highly Compact Artificial Memristive Neuron with Low Energy Consumption. Small, 2018, 14, e1802188.	10.0	89
7	Smooth control design for adaptive leader-following consensus control of a class of high-order nonlinear systems with time-varying reference. Automatica, 2017, 83, 361-367.	5.0	81
8	Training high-performance and large-scale deep neural networks with full 8-bit integers. Neural Networks, 2020, 125, 70-82.	5.9	64
9	Comparing SNNs and RNNs on neuromorphic vision datasets: Similarities and differences. Neural Networks, 2020, 132, 108-120.	5.9	62
10	Automatic Cataract Classification Using Deep Neural Network With Discrete State Transition. IEEE Transactions on Medical Imaging, 2020, 39, 436-446.	8.9	61
11	Enabling an Integrated Rate-temporal Learning Scheme on Memristor. Scientific Reports, 2014, 4, 4755.	3.3	60
12	Crossbar-Aware Neural Network Pruning. IEEE Access, 2018, 6, 58324-58337.	4.2	43
13	Complex Learning in Bio-plausible Memristive Networks. Scientific Reports, 2015, 5, 10684.	3.3	37
14	Brain-inspired global-local learning incorporated with neuromorphic computing. Nature Communications, 2022, 13, 65.	12.8	33
15	Iterative identification of block-oriented nonlinear systems based on biconvex optimization. Systems and Control Letters, 2015, 79, 68-75.	2.3	30
16	Hybrid tensor decomposition in neural network compression. Neural Networks, 2020, 132, 309-320.	5.9	25
17	Enabling Controlling Complex Networks with Local Topological Information. Scientific Reports, 2018, 8, 4593.	3.3	19
18	Compressing 3DCNNs based on tensor train decomposition. Neural Networks, 2020, 131, 215-230.	5.9	18

#	ARTICLE	IF	CITATIONS
19	Key node selection in minimum-cost control of complex networks. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 251-261.	2.6	16
20	Boundary Constraints for Minimum Cost Control of Directed Networks. IEEE Transactions on Cybernetics, 2017, 47, 4196-4207.	9.5	16
21	QTTNet: Quantized tensor train neural networks for 3D object and video recognition. Neural Networks, 2021, 141, 420-432.	5.9	16
22	Parallel alternating direction method of multipliers. Information Sciences, 2020, 507, 185-196.	6.9	15
23	Nonlinear tensor train format for deep neural network compression. Neural Networks, 2021, 144, 320-333.	5.9	14
24	A Comprehensive and Modularized Statistical Framework for Gradient Norm Equality in Deep Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 13-31.	13.9	13
25	Distributed consensus of heterogeneous multi-agent systems subject to switching topologies and delays. Journal of the Franklin Institute, 2020, 357, 6899-6917.	3.4	13
26	Super-resolution of spatiotemporal event-stream image. Neurocomputing, 2019, 335, 206-214.	5.9	12
27	E^2 DNet: An Ensembling Deep Neural Network for Solving Nonconvex Economic Dispatch in Smart Grid. IEEE Transactions on Industrial Informatics, 2022, 18, 3066-3076.	11.3	11
28	Neuromorphic computing chip with spatiotemporal elasticity for multi-intelligent-tasking robots. Science Robotics, 2022, 7, .	17.6	11
29	Locality sensitive batch feature extraction for high-dimensional data. Neurocomputing, 2016, 171, 664-672.	5.9	9
30	Bridging the information and dynamics attributes of neural activities. Physical Review Research, 2021, 3, .	3.6	7
31	Optimal Target Control of Complex Networks With Selectable Inputs. IEEE Transactions on Control of Network Systems, 2021, 8, 212-221.	3.7	6
32	L0 norm constraint based external control source allocation for the minimum cost control of directed networks. ISA Transactions, 2018, 76, 88-96.	5.7	5
33	Target control and expandable target control of complex networks. Journal of the Franklin Institute, 2020, 357, 3541-3564.	3.4	5
34	Leader selection problem for stochastically forced consensus networks based on matrix differentiation. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 799-812.	2.6	4
35	Towards the minimum-cost control of target nodes in directed networks with linear dynamics. Journal of the Franklin Institute, 2018, 355, 8141-8157.	3.4	4
36	Optimization on matrix manifold based on gradient information and its applications in network control. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 481-500.	2.6	4

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37	Containment control of directed networks with time-varying nonlinear multi-agents using minimum number of leaders. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120859.	2.6	3
38	Towards a polynomial algorithm for optimal contraction sequence of tensor networks from trees. Physical Review E, 2019, 100, 043309.	2.1	3
39	Tensor train decomposition for solving large-scale linear equations. Neurocomputing, 2021, 464, 203-217.	5.9	2
40	Matrix differentiation for capacity region of Gaussian multiple access channels under weighted total power constraint. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 703-715.	2.5	1
41	Allocating Minimum Number of Leaders for Seeking Consensus over Directed Networks with Time-varying Nonlinear Multi-agents. International Journal of Control, Automation and Systems, 2019, 17, 57-68.	2.7	1
42	Training and inference for integer-based semantic segmentation network. Neurocomputing, 2021, 454, 101-112.	5.9	1
43	Matrix function optimization under weighted boundary constraints and its applications in network control. ISA Transactions, 2018, 80, 232-243.	5.7	0
44	ARLIF: A Flexible and Efficient Recurrent Neuronal Model for Sequential Tasks. Communications in Computer and Information Science, 2021, , 1-13.	0.5	0