Guoqi

List of Publications by Year in descending order

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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	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
2	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
3	Brain-inspired global-local learning incorporated with neuromorphic computing. Nature Communications, 2022, 13, 65.	12.8	33
4	Neuromorphic computing chip with spatiotemporal elasticity for multi-intelligent-tasking robots. Science Robotics, 2022, 7, .	17.6	11
5	Optimal Target Control of Complex Networks With Selectable Inputs. IEEE Transactions on Control of Network Systems, 2021, 8, 212-221.	3.7	6
6	ARLIF: A Flexible and Efficient Recurrent Neuronal Model for Sequential Tasks. Communications in Computer and Information Science, 2021, , 1-13.	0.5	0
7	QTTNet: Quantized tensor train neural networks for 3D object and video recognition. Neural Networks, 2021, 141, 420-432.	5.9	16
8	Training and inference for integer-based semantic segmentation network. Neurocomputing, 2021, 454, 101-112.	5.9	1
9	Tensor train decomposition for solving large-scale linear equations. Neurocomputing, 2021, 464, 203-217.	5.9	2
10	Nonlinear tensor train format for deep neural network compression. Neural Networks, 2021, 144, 320-333.	5.9	14
11	Bridging the information and dynamics attributes of neural activities. Physical Review Research, 2021, 3, .	3.6	7
12	Rethinking the performance comparison between SNNS and ANNS. Neural Networks, 2020, 121, 294-307.	5.9	131
13	Parallel alternating direction method of multipliers. Information Sciences, 2020, 507, 185-196.	6.9	15
14	Automatic Cataract Classification Using Deep Neural Network With Discrete State Transition. IEEE Transactions on Medical Imaging, 2020, 39, 436-446.	8.9	61
15	Target control and expandable target control of complex networks. Journal of the Franklin Institute, 2020, 357, 3541-3564.	3.4	5
16	Hybrid tensor decomposition in neural network compression. Neural Networks, 2020, 132, 309-320.	5.9	25
17	Compressing 3DCNNs based on tensor train decomposition. Neural Networks, 2020, 131, 215-230.	5.9	18
18	Comparing SNNs and RNNs on neuromorphic vision datasets: Similarities and differences. Neural Networks, 2020, 132, 108-120.	5.9	62

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19	Training high-performance and large-scale deep neural networks with full 8-bit integers. Neural Networks, 2020, 125, 70-82.	5.9	64
20	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
21	Towards artificial general intelligence with hybrid Tianjic chip architecture. Nature, 2019, 572, 106-111.	27.8	517
22	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
23	Towards a polynomial algorithm for optimal contraction sequence of tensor networks from trees. Physical Review E, 2019, 100, 043309.	2.1	3
24	$L1$ -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
25	Super-resolution of spatiotemporal event-stream image. Neurocomputing, 2019, 335, 206-214.	5.9	12
26	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
27	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
28	Enabling Controlling Complex Networks with Local Topological Information. Scientific Reports, 2018, 8, 4593.	3.3	19
29	Highly Compact Artificial Memristive Neuron with Low Energy Consumption. Small, 2018, 14, e1802188.	10.0	89
30	Crossbar-Aware Neural Network Pruning. IEEE Access, 2018, 6, 58324-58337.	4.2	43
31	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
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	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
34	Matrix function optimization under weighted boundary constraints and its applications in network control. ISA Transactions, 2018, 80, 232-243.	5.7	0
35	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
36	Key node selection in minimum-cost control of complex networks. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 251-261.	2.6	16

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37	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
38	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
39	Boundary Constraints for Minimum Cost Control of Directed Networks. IEEE Transactions on Cybernetics, 2017, 47, 4196-4207.	9.5	16
40	CIFAR10-DVS: An Event-Stream Dataset for Object Classification. Frontiers in Neuroscience, 2017, 11, 309.	2.8	187
41	Locality sensitive batch feature extraction for high-dimensional data. Neurocomputing, 2016, 171, 664-672.	5.9	9
42	Complex Learning in Bio-plausible Memristive Networks. Scientific Reports, 2015, 5, 10684.	3.3	37
43	Iterative identification of block-oriented nonlinear systems based on biconvex optimization. Systems and Control Letters, 2015, 79, 68-75.	2.3	30
44	Enabling an Integrated Rate-temporal Learning Scheme on Memristor. Scientific Reports, 2014, 4, 4755.	3.3	60