Qinru Qiu

List of Publications by Year
in descending order

40 papers	1,129 citations	1651377 6 h-index	1637695 9 g-index
40 all docs	40 docs citations	40 times ranked	1705 citing authors

#	Article	IF	Citations
1	1S1R-Based Stable Learning through Single-Spike-Encoded Spike-Timing-Dependent Plasticity. , 2021, , .		0
2	Multivariate Time Series Classification Using Spiking Neural Networks. , 2020, , .		13
3	ISLPED 2020: An Experience of Virtual Conference during COVID-19 Time. IEEE Design and Test, 2020, 37, 96-98.	1.1	1
4	Integration and Co-design of Memristive Devices and Algorithms for Artificial Intelligence. IScience, 2020, 23, 101809.	1.9	49
5	Fast and Accurate Trajectory Tracking for Unmanned Aerial Vehicles based on Deep Reinforcement Learning. , 2019, , .		5
6	Efficient Cloud Resource Management using Neuromorphic Modeling and Prediction for Virtual Machine Resource Utilization. , 2019, , .		0
7	In situ training of feed-forward and recurrent convolutional memristor networks. Nature Machine Intelligence, 2019, 1, 434-442.	8.3	201
8	Reinforcement learning with analogue memristor arrays. Nature Electronics, 2019, 2, 115-124.	13.1	247
9	Temporal and Spatial Routing for Large Scale Safe and Connected UAS Traffic Management in Urban Areas. , 2019, , .		5
10	Learning Topics Using Semantic Locality. , 2018, , .		3
11	Modular Spiking Neural Circuits for Mapping Long Short-Term Memory on a Neurosynaptic Processor. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 782-795.	2.7	7
12	Capacitive neural network with neuro-transistors. Nature Communications, 2018, 9, 3208.	5.8	199
13	Towards Budget-Driven Hardware Optimization for Deep Convolutional Neural Networks Using Stochastic Computing. , 2018, , .		0
14	A Hierarchical Framework of Cloud Resource Allocation and Power Management Using Deep Reinforcement Learning. , 2017, , .		184
15	Stable spike-timing dependent plasticity rule for multilayer unsupervised and supervised learning. , 2017, , .		29
16	A spike-based long short-term memory on a neurosynaptic processor. , 2017, , .		13
17	A low-computation-complexity, energy-efficient, and high-performance linear program solver using memristor crossbars. , 2016, , .		4
18	Assisting fuzzy offline handwriting recognition using recurrent belief propagation. , 2016, , .		3

#	Article	IF	Citations
19	System Design for In-Hardware STDP Learning and Spiking Based Probablistic Inference. , 2016, , .		5
20	Simulation of bayesian learning and inference on distributed stochastic spiking neural networks. , 2016, , .		5
21	Designing reconfigurable large-scale deep learning systems using stochastic computing. , 2016, , .		26
22	Towards memristor based accelerator for sparse matrix vector multiplication. , 2016, , .		15
23	Enhancing bidirectional association between deep image representations and loosely correlated texts. , 2016, , .		1
24	Probabilistic inference using stochastic spiking neural networks on a neurosynaptic processor. , 2016, , .		14
25	Guest editorial: Design and applications of neuromorphic computing system. IEEE Transactions on Multi-Scale Computing Systems, 2016, 2, 223-224.	2.5	2
26	Distributed and configurable architecture for neuromorphic applications on heterogeneous cluster. , 2016, , .		0
27	Towards parallel implementation of associative inference for cogent confabulation. , 2016, , .		2
28	A Neuromorphic Architecture for Context Aware Text Image Recognition. Journal of Signal Processing Systems, 2016, 84, 355-369.	1.4	10
29	Self-structured confabulation network for fast anomaly detection and reasoning. , 2015, , .		4
30	Completion and parsing Chinese sentences using cogent confabulation. , 2014, , .		5
31	Neuromorphic acceleration for context aware text image recognition. , 2014, , .		5
32	Contention aware frequency scaling on CMPs with guaranteed quality of service. , 2014, , .		1
33	Battery aware stochastic QoS boosting in mobile computing devices. , 2014, , .		0
34	A confabulation model for abnormal vehicle events detection in wide-area traffic monitoring. , 2014, , .		7
35	Battery aware stochastic QoS boosting in mobile computing devices. , 2014, , .		2
36	Contention aware frequency scaling on CMPs with guaranteed quality of service. , 2014, , .		0

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37	A neuromorphic architecture for anomaly detection in autonomous large-area traffic monitoring. , 2013, , .		7
38	User-Aware Energy Efficient Streaming Strategy for Smartphone Based Video Playback Applications. , 2013, , .		9
39	Tag-assisted sentence confabulation for intelligent text recognition. , 2012, , .		5
40	A Multi-Agent Framework for Thermal Aware Task Migration in Many-Core Systems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 1758-1771.	2.1	41