Tong Geng

List of Publications by Year
in descending order

18 papers	405 citations	1937685 4 h-index	2272923 4 g-index
18 all docs	18 docs citations	18 times ranked	200 citing authors

#	Article	IF	Citations
1	Reconfigurable switches for high performance and flexible MPI collectives. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	6
2	FCsN: A FPGA-Centric SmartNIC Framework for Neural Networks. , 2022, , .		1
3	O3BNN-R: An Out-of-Order Architecture for High-Performance and Regularized BNN Inference. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 199-213.	5.6	25
4	I-GCN: A Graph Convolutional Network Accelerator with Runtime Locality Enhancement through Islandization. , 2021, , .		45
5	BCNN: Binary complex neural network. Microprocessors and Microsystems, 2021, 87, 104359.	2.8	5
6	Workload Imbalance in HPC Applications: Effect on Performance of In-Network Processing. , 2021, , .		7
7	A Survey: Handling Irregularities in Neural Network Acceleration with FPGAs. , 2021, , .		7
8	FP-AMG: FPGA-Based Acceleration Framework for Algebraic Multigrid Solvers. , 2020, , .		7
9	AWB-GCN: A Graph Convolutional Network Accelerator with Runtime Workload Rebalancing. , 2020, , .		132
10	FPDeep: Scalable Acceleration of CNN Training on Deeply-Pipelined FPGA Clusters. IEEE Transactions on Computers, 2020, , 1-1.	3.4	11
11	FPGAs in the Network and Novel Communicator Support Accelerate MPI Collectives. , 2020, , .		10
12	CQNN: a CGRA-based QNN Framework. , 2020, , .		3
13	GhostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework. , 2019, , .		15
14	O3BNN. , 2019, , .		14
15	LP-BNN: Ultra-low-Latency BNN Inference with Layer Parallelism. , 2019, , .		27
16	Accelerating AP3M-Based Computational Astrophysics Simulations with Reconfigurable Clusters. , 2019, , .		2
17	BSTC. , 2019, , .		26
18	FPDeep: Acceleration and Load Balancing of CNN Training on FPGA Clusters. , 2018, , .		62