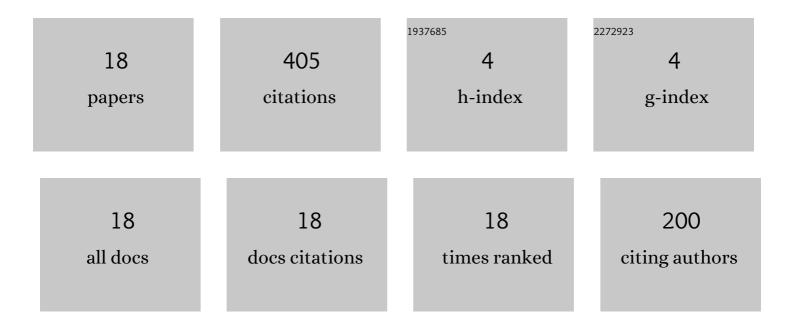
Tong Geng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4140639/publications.pdf Version: 2024-02-01



TONC GENC

1 Reconfigurable switches for high performance and flexible MPI collectives. Concurrency 2.2 6 2 FCSN: A FPCA-Centric SmartNIC Framework for Neural Networks., 2022,, 1 3 O3BNN-R: An Out-of-Order Architecture for High-Performance and Regularized BNN Inference. IEEE 6.6 25 4 ICCN: A Graph Convolutional Network Accelerator with Runtime Locality Enhancement through islandization, 2021, 6.8 5 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, 12 9 AWB-CCN: A Graph Convolutional Network Accelerator with Runtine Workload Rebalancing., 2020, 13 10 FPCAsin the Network and Novel Communicator Support Accelerate MPI Collectives., 2020, 3.4 1 11 FPCAs in the Network and Novel Communicator Support Accelerate MPI Collectives., 2020, 3 3 12 CQNN: a CGRA-based QNN Framework., 2020, 15 3 3 1	#	Article	IF	CITATIONS
3 O2BNNR: An Out-of-Order Architecture for High-Performance and Regularized BNN Inference. IEEE 5.6 25 4 IsCN: A Graph Convolutional Network Accelerator with Runtime Locality Enhancement through 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 FPCAs., 2021, 7 8 FP-AMG: FPGA-Based Acceleration Framework for Algebraic Multigrid Solvers., 2020, 12 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, 3 3 12 CQNN: a CGRA-based QNN Framework., 2020, 13 13 ChostSZ: A Transparent FPCAAccelerated Lossy Compression Framework., 2019, 14 03BNN., 2019, 14	1		2.2	6
3 Transactions on Parallel and Distributed Systems, 2021, 32, 199-213. 5.0 23 4 I-CCN: A Graph Convolutional Network Accelerator with Runtime Locality Enhancement through 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 FPCAs., 2021, 7 8 FP-AMC: FPGA-Based Acceleration Framework for Algebraic Multigrid Solvers., 2020, 7 9 AVWB-GCN: A Graph Convolutional Network Accelerator with Runtime Workload Rebalancing., 2020, 132 10 FPD-egp: Scalable Acceleration of CNN Training on Deeply-Pipelined FPGA Clusters. IEEE Transactions on Computers, 2020, 1-1. 10 11 FPGAs in the Network and Novel Communicator Support Accelerate MPI Collectives., 2020, 10 12 CQNN: a CGRA-based QNN Framework., 2020, 15 13 GhostS2: A Transparent FPGA-Accelerated Lossy Compression Framework., 2019, 15 14 Q3BNN., 2019, 14	2	FCsN: A FPGA-Centric SmartNIC Framework for Neural Networks. , 2022, , .		1
4 Islandization, 2021, 43 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 FPCAs., 2021, 7 8 FP-AMG: FPCA-Based Acceleration Framework for Algebraic Multigrid Solvers., 2020, 7 9 AWB-CCN: A Graph Convolutional Network Accelerator with Runtime Workload Rebalancing., 2020, 132 10 FPDeep: Scalable Acceleration of CNN Training on Deeply-Pipelined FPCA Clusters. IEEE Transactions on Computers, 2020, 3.4 11 11 FPGAs in the Network and Novel Communicator Support Accelerate MPI Collectives., 2020, 3 13 Ghost5Z: A Transparent FPCA-Accelerated Lossy Compression Framework., 2019, 15 14 03BNN, .2019, 14	3		5.6	25
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 FPCAs., 2021,, 7 8 FP-AMC: FPCA-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 FPCA Clusters. IEEE Transactions on Computers, 2020, 3.4 11 11 FPCAs in the Network and Novel Communicator Support Accelerate MPI Collectives., 2020, 3 3 12 CQNN: a CGRA-based QNN Framework., 2020, 3 3 13 GhostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework., 2019, 14	4			45
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 S.4 11 11 FPCAs 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, ,. 14	5	BCNN: Binary complex neural network. Microprocessors and Microsystems, 2021, 87, 104359.	2.8	5
8 FP-AMC: 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, ,. 3 3 12 CQNN: a CGRA-based QNN Framework., 2020, ,. 3 3 13 ChostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework., 2019, ,. 14	6	Workload Imbalance in HPC Applications: Effect on Performance of In-Network Processing. , 2021, , .		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. 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	7	A Survey: Handling Irregularities in Neural Network Acceleration with FPGAs. , 2021, , .		7
10 FPDeep: Scalable Acceleration of CNN Training on Deeply-Pipelined FPGA Clusters. IEEE Transactions on 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	8	FP-AMC: FPGA-Based Acceleration Framework for Algebraic Multigrid Solvers. , 2020, , .		7
10Computers, 2020, , 1-1.3.41111FPGAs in the Network and Novel Communicator Support Accelerate MPI Collectives. , 2020, , .1012CQNN: a CGRA-based QNN Framework. , 2020, , .313GhostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework. , 2019, , .1514O3BNN. , 2019, , .14	9	AWB-GCN: A Graph Convolutional Network Accelerator with Runtime Workload Rebalancing. , 2020, , .		132
12CQNN: a CGRA-based QNN Framework. , 2020, , .313GhostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework. , 2019, , .1514O3BNN. , 2019, , .14	10		3.4	11
13 ChostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework. , 2019, , . 15 14 O3BNN. , 2019, , . 14	11	FPGAs in the Network and Novel Communicator Support Accelerate MPI Collectives. , 2020, , .		10
14 O3BNN., 2019,,. 14	12	CQNN: a CGRA-based QNN Framework. , 2020, , .		3
	13	GhostSZ: A Transparent FPGA-Accelerated Lossy Compression Framework. , 2019, , .		15
15 LP-BNN: Ultra-low-Latency BNN Inference with Layer Parallelism. , 2019, , . 27	14	O3BNN., 2019,,.		14
	15	LP-BNN: Ultra-low-Latency BNN Inference with Layer Parallelism. , 2019, , .		27
Accelerating AP3M-Based Computational Astrophysics Simulations with Reconfigurable Clusters. , 2019, , .	16	Accelerating AP3M-Based Computational Astrophysics Simulations with Reconfigurable Clusters. , 2019, , .		2
17 BSTC., 2019,,. 26	17	BSTC., 2019,,.		26

18 FPDeep: Acceleration and Load Balancing of CNN Training on FPGA Clusters. , 2018, , .

62