

Alessandro Capotondi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

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1478505

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24
all docs

24
docs citations

24
times ranked

305
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | PULP: A parallel ultra low power platform for next generation IoT applications. , 2015, , . | | 85 |
| 2 | CMix-NN: Mixed Low-Precision CNN Library for Memory-Constrained Edge Devices. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 871-875. | 3.0 | 61 |
| 3 | NEURA <sc>ghe</sc>. ACM Transactions on Reconfigurable Technology and Systems, 2018, 11, 1-24. | 2.5 | 50 |
| 4 | A TinyML Platform for On-Device Continual Learning With Quantized Latent Replays. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 789-802. | 3.6 | 30 |
| 5 | A Systematic Assessment of Embedded Neural Networks for Object Detection. , 2020, , . | | 26 |
| 6 | Improving the programmability of STHORM-based heterogeneous systems with offload-enabled OpenMP. , 2013, , . | | 19 |
| 7 | Work-in-Progress: Quantized NNs as the Definitive Solution for Inference on Low-Power ARM MCUs?. , 2018, , . | | 16 |
| 8 | Simplifying Many-Core-Based Heterogeneous SoC Programming With Offload Directives. IEEE Transactions on Industrial Informatics, 2015, 11, 957-967. | 11.3 | 15 |
| 9 | HERO. , 2018, , . | | 12 |
| 10 | The Quest for Energy-Efficient I\$ Design in Ultra-Low-Power Clustered Many-Cores. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 99-112. | 2.4 | 11 |
| 11 | Runtime Support for Multiple Offload-Based Programming Models on Clustered Manycore Accelerators. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 330-342. | 4.6 | 6 |
| 12 | Exploring NEURAghe: A Customizable Template for APSoC-Based CNN Inference at the Edge. IEEE Embedded Systems Letters, 2020, 12, 62-65. | 1.9 | 5 |
| 13 | A RISC-V-based FPGA Overlay to Simplify Embedded Accelerator Deployment. , 2021, , . | | 5 |
| 14 | Enabling zero-copy OpenMP offloading on the PULP many-core accelerator. , 2017, , . | | 4 |
| 15 | Unmanned Vehicles in Smart Farming: a Survey and a Glance at Future Horizons. , 2021, , . | | 4 |
| 16 | Robustifying the Deployment of tinyML Models for Autonomous Mini-Vehicles. , 2021, , . | | 4 |
| 17 | Understanding and Mitigating Memory Interference in FPGA-based HeSoCs. , 2022, , . | | 4 |
| 18 | Controlling NUMA effects in embedded manycore applications with lightweight nested parallelism support. Parallel Computing, 2016, 59, 24-42. | 2.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 19 | Mixed-data-model heterogeneous compilation and OpenMP offloading. , 2020, , . | | 3 |
| 20 | Augmenting manycore programmable accelerators with photonic interconnect technology for the high-end embedded computing domain. , 2014, , . | | 2 |
| 21 | On the effectiveness of OpenMP teams for cluster-based many-core accelerators. , 2016, , . | | 2 |
| 22 | Runtime Support for Multiple Offload-Based Programming Models on Embedded Manycore Accelerators. , 2015, , . | | 1 |
| 23 | An FPGA Overlay for Efficient Real-Time Localization in 1/10th Scale Autonomous Vehicles. , 2022, , . | | 1 |
| 24 | Enabling Scalable and Fine-Grained Nested Parallelism on Embedded Many-cores. , 2015, , . | | 0 |