

Soheil Ghiasi

List of Publications by Year in descending order

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36
papers

563
citations

1040056

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888059

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36
docs citations

36
times ranked

625
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Scalable CNN Synthesis for Resource-Constrained Embedded Platforms. IEEE Internet of Things Journal, 2022, 9, 2267-2276. | 8.7 | 4 |
| 2 | CNN synthesis for resource-constrained platforms. , 2022, , . | | 0 |
| 3 | Design and <i>In Vivo</i> Evaluation of a Non-Invasive Transabdominal Fetal Pulse Oximeter. IEEE Transactions on Biomedical Engineering, 2021, 68, 256-266. | 4.2 | 15 |
| 4 | Towards Noninvasive Accurate Detection of Intrapartum Fetal Hypoxic Distress. , 2021, , . | | 2 |
| 5 | E2BNet: MAC-free yet accurate 2-level binarized neural network accelerator for embedded systems. Journal of Real-Time Image Processing, 2021, 18, 1285-1299. | 3.5 | 5 |
| 6 | Multi-Detector Heart Rate Extraction Method for Transabdominal Fetal Pulse Oximetry. , 2021, 2021, 1072-1075. | | 3 |
| 7 | Octopus: Context-Aware CNN Inference for IoT Applications. IEEE Embedded Systems Letters, 2020, 12, 1-4. | 1.9 | 3 |
| 8 | 1168: Fetal tolerance of maternal resuscitative endovascular balloon occlusion of the aorta in a sheep model. American Journal of Obstetrics and Gynecology, 2020, 222, S718-S719. | 1.3 | 3 |
| 9 | Contextually-aware Fetal Sensing in Transabdominal Fetal Pulse Oximetry. , 2020, , . | | 8 |
| 10 | Validation of a Novel Transabdominal Fetal Oximeter in a Hypoxic Fetal Lamb Model. Reproductive Sciences, 2020, 27, 1960-1966. | 2.5 | 6 |
| 11 | DSP-Efficient Hardware Acceleration of Convolutional Neural Network Inference on FPGAs. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4867-4880. | 2.7 | 18 |
| 12 | ABM-SpConv. , 2019, , . | | 21 |
| 13 | Cappuccino: Efficient CNN Inference Software Synthesis for Mobile System-on-Chips. IEEE Embedded Systems Letters, 2019, 11, 9-12. | 1.9 | 18 |
| 14 | Optode Design Space Exploration for Clinically-robust Non-invasive Fetal Oximetry. Transactions on Embedded Computing Systems, 2019, 18, 1-22. | 2.9 | 16 |
| 15 | Distill-Net. Transactions on Embedded Computing Systems, 2019, 18, 1-20. | 2.9 | 3 |
| 16 | Non-invasive bladder volume sensing for neurogenic bladder dysfunction management. , 2018, , . | | 11 |
| 17 | Ristretto: A Framework for Empirical Study of Resource-Efficient Inference in Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5784-5789. | 11.3 | 173 |
| 18 | Recovering the fetal signal in transabdominal fetal pulse oximetry. Smart Health, 2018, 9-10, 23-36. | 3.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Machine Intelligence on Resource-Constrained IoT Devices. Transactions on Embedded Computing Systems, 2017, 16, 1-19. | 2.9 | 24 |
| 20 | PLACID. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-21. | 4.3 | 18 |
| 21 | Transabdominal fetal pulse oximetry: The case of fetal signal optimization. , 2017, , . | | 12 |
| 22 | Wearable Sensor Selection, Motion Representation and their Effect on Exercise Classification. , 2016, , . | | 5 |
| 23 | Design space exploration of FPGA-based Deep Convolutional Neural Networks. , 2016, , . | | 139 |
| 24 | Streaming Solutions for Fine-Grained Network Traffic Measurements and Analysis. IEEE/ACM Transactions on Networking, 2014, 22, 377-390. | 3.8 | 8 |
| 25 | A Dynamically Reconfigurable System for Closed-Loop Measurements of Network Traffic. IEEE Transactions on Computers, 2014, 63, 263-275. | 3.4 | 2 |
| 26 | BAMSE: A balanced mapping space exploration algorithm for GALS-based manycore platforms. , 2013, , . | | 1 |
| 27 | Puzzle solver accelerators make excellent capstone design projects. , 2011, , . | | 0 |
| 28 | Towards scalable utilization of embedded manycores in throughput-sensitive applications. , 2011, , . | | 0 |
| 29 | On Incremental Component Implementation Selection in System Synthesis. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2010, 18, 1578-1589. | 3.1 | 0 |
| 30 | Versatile Task Assignment for Heterogeneous Soft Dual-Processor Platforms. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 414-425. | 2.7 | 11 |
| 31 | System-Level Performance Estimation for Application-Specific MPSoC Interconnect Synthesis. , 2008, , . | | 10 |
| 32 | Exact and Approximate Task Assignment Algorithms for Pipelined Software Synthesis. , 2008, , . | | 2 |
| 33 | Efficient and Scalable Compiler-Directed Energy Optimization for Realtime Applications. , 2007, , . | | 3 |
| 34 | Incremental component implementation selection: enabling ECO in compositional system synthesis. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007, , . | 0.0 | 0 |
| 35 | Efficient Timing Budget Management for Accuracy Improvement in a Collaborative Object Tracking System. Journal of Signal Processing Systems, 2006, 42, 43-55. | 1.0 | 0 |
| 36 | Adaptive Medical Feature Extraction for Resource Constrained Distributed Embedded Systems. , 0, , . | | 1 |