Soheil Ghiasi

List of Publications by Year
in descending order

36	563	1040056	888059
		9	17
papers	citations	h-index	g-index

36	36	36	625
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Design space exploration of FPGA-based Deep Convolutional Neural Networks. , 2016, , .		139
3	Machine Intelligence on Resource-Constrained IoT Devices. Transactions on Embedded Computing Systems, 2017, 16, 1-19.	2.9	24
4	ABM-SpConv. , 2019, , .		21
5	PLACID. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-21.	4.3	18
6	Recovering the fetal signal in transabdominal fetal pulse oximetry. Smart Health, 2018, 9-10, 23-36.	3.2	18
7	Cappuccino: Efficient CNN Inference Software Synthesis for Mobile System-on-Chips. IEEE Embedded Systems Letters, 2019, 11, 9-12.	1.9	18
8	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
9	Optode Design Space Exploration for Clinically-robust Non-invasive Fetal Oximetry. Transactions on Embedded Computing Systems, 2019, 18, 1-22.	2.9	16
10	Design and *In Vivo* Evaluation of a Non-Invasive Transabdominal Fetal Pulse Oximeter. IEEE Transactions on Biomedical Engineering, 2021, 68, 256-266.	4.2	15
11	Transabdominal fetal pulse oximetry: The case of fetal signal optimization. , 2017, , .		12
12	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
13	Non-invasive bladder volume sensing for neurogenic bladder dysfunction management. , 2018, , .		11
14	System-Level Performance Estimation for Application-Specific MPSoC Interconnect Synthesis. , 2008, , .		10
15	Streaming Solutions for Fine-Grained Network Traffic Measurements and Analysis. IEEE/ACM Transactions on Networking, 2014, 22, 377-390.	3.8	8
16	Contextually-aware Fetal Sensing in Transabdominal Fetal Pulse Oximetry. , 2020, , .		8
17	Validation of a Novel Transabdominal Fetal Oximeter in a Hypoxic Fetal Lamb Model. Reproductive Sciences, 2020, 27, 1960-1966.	2.5	6
18	Wearable Sensor Selection, Motion Representation and their Effect on Exercise Classification. , 2016, , .		5

#	Article	IF	Citations
19	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
20	Scalable CNN Synthesis for Resource-Constrained Embedded Platforms. IEEE Internet of Things Journal, 2022, 9, 2267-2276.	8.7	4
21	Efficient and Scalable Compiler-Directed Energy Optimization for Realtime Applications. , 2007, , .		3
22	Octopus: Context-Aware CNN Inference for IoT Applications. IEEE Embedded Systems Letters, 2020, 12, 1-4.	1.9	3
23	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
24	Distill-Net. Transactions on Embedded Computing Systems, 2019, 18, 1-20.	2.9	3
25	Multi-Detector Heart Rate Extraction Method for Transabdominal Fetal Pulse Oximetry. , 2021, 2021, 1072-1075.		3
26	Exact and Approximate Task Assignment Algorithms for Pipelined Software Synthesis. , 2008, , .		2
27	A Dynamically Reconfigurable System for Closed-Loop Measurements of Network Traffic. IEEE Transactions on Computers, 2014, 63, 263-275.	3.4	2
28	Towards Noninvasive Accurate Detection of Intrapartum Fetal Hypoxic Distress. , 2021, , .		2
29	Adaptive Medical Feature Extraction for Resource Constrained Distributed Embedded Systems. , 0, , .		1
30	BAMSE: A balanced mapping space exploration algorithm for GALS-based manycore platforms. , 2013, , .		1
31	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
32	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
33	On Incremental Component Implementation Selection in System Synthesis. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2010, 18, 1578-1589.	3.1	0
34	Puzzle solver accelerators make excellent capstone design projects. , 2011, , .		0
35	Towards scalable utilization of embedded manycores in throughput-sensitive applications. , 2011, , .		0
36	CNN synthesis for resource-constrained platforms. , 2022, , .		0