

Adrian Sampson

List of Publications by Year in descending order

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36
papers

2,287
citations

933447

10
h-index

1058476

14
g-index

36
all docs

36
docs citations

36
times ranked

1080
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Acceleration for General-Purpose Approximate Programs. , 2012, , .		484
2	EnerJ. , 2011, , .		373
3	Architecture support for disciplined approximate programming. , 2012, , .		270
4	EnerJ. ACM SIGPLAN Notices, 2011, 46, 164-174.	0.2	243
5	Approximate storage in solid-state memories. , 2013, , .		177
6	SNNAP: Approximate computing on programmable SoCs via neural acceleration. , 2015, , .		86
7	Approximate Storage in Solid-State Memories. ACM Transactions on Computer Systems, 2014, 32, 1-23.	0.8	81
8	Reconfiguring the Imaging Pipeline for Computer Vision. , 2017, , .		67
9	Architecture support for disciplined approximate programming. ACM SIGPLAN Notices, 2012, 47, 301-312.	0.2	52
10	Expressing and verifying probabilistic assertions. , 2014, , .		45
11	EVA ² : Exploiting Temporal Redundancy in Live Computer Vision. , 2018, , .		44
12	Monitoring and Debugging the Quality of Results in Approximate Programs. , 2015, , .		41
13	Neural acceleration for general-purpose approximate programs. Communications of the ACM, 2015, 58, 105-115.	4.5	37
14	Exploiting Errors for Efficiency. ACM Computing Surveys, 2021, 53, 1-39.	23.0	31
15	Neural Acceleration for General-Purpose Approximate Programs. IEEE Micro, 2013, 33, 16-27.	1.8	30
16	Probability type inference for flexible approximate programming. , 2015, , .		30
17	Expressing and verifying probabilistic assertions. ACM SIGPLAN Notices, 2014, 49, 112-122.	0.2	26
18	A Taxonomy of General Purpose Approximate Computing Techniques. IEEE Embedded Systems Letters, 2018, 10, 2-5.	1.9	25

#	ARTICLE	IF	CITATIONS
19	Approximate Computing: Making Mobile Systems More Efficient. IEEE Pervasive Computing, 2015, 14, 9-13.	1.3	24
20	Predictable accelerator design with time-sensitive affine types. , 2020, , .		22
21	Vectorization for digital signal processors via equality saturation. , 2021, , .		20
22	Architecture support for disciplined approximate programming. Computer Architecture News, 2012, 40, 301-312.	2.5	18
23	Debugging probabilistic programs. , 2017, , .		9
24	Automatic discovery of performance and energy pitfalls in HTML and CSS. , 2012, , .		8
25	Composable specifications for structured shared-memory communication. , 2010, , .		6
26	Static stages for heterogeneous programming. , 2017, 1, 1-27.		6
27	Monitoring and Debugging the Quality of Results in Approximate Programs. ACM SIGPLAN Notices, 2015, 50, 399-411.	0.2	6
28	Probability type inference for flexible approximate programming. ACM SIGPLAN Notices, 2015, 50, 470-487.	0.2	6
29	Performance Left on the Table: An Evaluation of Compiler Autovectorization for RISC-V. IEEE Micro, 2022, 42, 41-48.	1.8	6
30	A Synthesis-Aided Compiler for DSP Architectures (WiP Paper). , 2020, , .		5
31	Monitoring and Debugging the Quality of Results in Approximate Programs. Computer Architecture News, 2015, 43, 399-411.	2.5	3
32	Geometry types for graphics programming. , 2020, 4, 1-25.		3
33	Reticle: a virtual machine for programming modern FPGAs. , 2021, , .		2
34	Software-Defined Vector Processing on Manycore Fabrics. , 2021, , .		1
35	APPROXIMATE COMPUTING. GetMobile (New York, N Y), 2017, 20, 12-16.	1.0	0
36	Online verification of commutativity. , 2020, , .		0