

Rajit Manohar

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1538519/rajit-manohar-publications-by-citations.pdf>

Version: 2024-04-16

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

2,941
citations

11
h-index

54
g-index

54
ext. papers

3,895
ext. citations

4
avg, IF

4.52
L-index

#	Paper	IF	Citations
45	Artificial brains. A million spiking-neuron integrated circuit with a scalable communication network and interface. <i>Science</i> , 2014 , 345, 668-73	33.3	2012
44	TrueNorth: Design and Tool Flow of a 65 mW 1 Million Neuron Programmable Neurosynaptic Chip. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2015 , 34, 1537-1557	2.5	530
43	Utilizing Dynamically Coupled Cores to Form a Resilient Chip Multiprocessor 2007 ,		87
42	Braindrop: A Mixed-Signal Neuromorphic Architecture With a Dynamical Systems-Based Programming Model. <i>Proceedings of the IEEE</i> , 2019 , 107, 144-164	14.3	73
41	Reconfigurable Asynchronous Logic 2006 ,		22
40	Automatic obfuscated cell layout for trusted split-foundry design 2015 ,		18
39	Performance and portability of an air quality model. <i>Parallel Computing</i> , 1997 , 23, 2187-2200	1	15
38	Comparing Stochastic and Deterministic Computing. <i>IEEE Computer Architecture Letters</i> , 2015 , 14, 119-122		13
37	cellTK: Automated Layout for Asynchronous Circuits with Nonstandard Cells 2013 ,		11
36	Static Power Reduction Techniques for Asynchronous Circuits 2010 ,		11
35	An ultra low-power processor for sensor networks. <i>Operating Systems Review (ACM)</i> , 2004 , 38, 27-36	0.8	11
34	Address-Event Communication Using Token-Ring Mutual Exclusion 2011 ,		10
33	A memory-efficient routing method for large-scale spiking neural networks 2013 ,		9
32	A high-performance asynchronous FPGA: test results		9
31	An Operand-Optimized Asynchronous IEEE 754 Double-Precision Floating-Point Adder 2010 ,		8
30	An Asynchronous FPGA with Two-Phase Enable-Scaled Routing 2010 ,		8
29	A Continuous-Time Digital IIR Filter With Signal-Derived Timing and Fully Agile Power Consumption. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 418-430	5.5	7

28	Exact Timing Analysis for Asynchronous Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018 , 37, 203-216	2.5	7
27	Variability in 3-D integrated circuits 2008 ,		7
26	ULSNAP: An ultra-low power event-driven microcontroller for sensor network nodes 2014 ,		6
25	Analyzing Isochronic Forks with Potential Causality 2015 ,		6
24	On Using Time Without Clocks via Zigzag Causality 2017 ,		5
23	AES Hardware-Software Co-design in WSN 2015 ,		5
22	The Eventual C-Element Theorem for Delay-Insensitive Asynchronous Circuits 2017 ,		5
21	An Asynchronous Floating-Point Multiplier 2012 ,		5
20	Reducing Power Consumption with Relaxed Quasi Delay-Insensitive Circuits 2009 ,		5
19	Hardware-Software Co-Design for Brain-Computer Interfaces 2020 ,		5
18	Timing Driven Placement for Quasi Delay-Insensitive Circuits 2015 ,		4
17	Gradual Synchronization 2016 ,		4
16	AMC: An Asynchronous Memory Compiler 2019 ,		4
15	Operation-Dependent Frequency Scaling Using Desynchronization. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019 , 27, 799-809	2.6	3
14	Asynchronous Signalling Processes 2019 ,		3
13	2020 ,		3
12	Conditional composition. <i>Formal Aspects of Computing</i> , 1995 , 7, 683-703	1.2	2
11	SPRoute: A Scalable Parallel Negotiation-based Global Router 2019 ,		2

10	Exact Timing Analysis for Asynchronous Circuits With Multiple Periods. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 3134-3138	2.5	1
9	A Systematic Approach for Arbitration Expressions. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 4960-4969	3.9	1
8	An Open-Source EDA Flow for Asynchronous Logic. <i>IEEE Design and Test</i> , 2021 , 38, 27-37	1.4	1
7	Balancing Specialized Versus Flexible Computation in Brain-Computer Interfaces. <i>IEEE Micro</i> , 2021 , 41, 87-94	1.8	1
6	Pilot Evaluations of Two Bluetooth Contact Tracing Approaches on a University Campus: Mixed Methods Study. <i>JMIR Formative Research</i> , 2021 , 5, e31086	2.5	1
5	QDI Constant-Time Counters. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019 , 27, 83-91	2.6	1
4	Self-Timed Adaptive Digit-Serial Addition. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019 , 27, 2131-2141	2.6	0
3	Scalable formal design methods for asynchronous VLSI. <i>ACM SIGPLAN Notices</i> , 2002 , 37, 245-246	0.2	
2	General Approach to Asynchronous Circuits Simulation Using Synchronous FPGAs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2021 , 1-1	2.5	
1	Preventing glitches and short circuits in high-level self-timed chip specifications. <i>ACM SIGPLAN Notices</i> , 2015 , 50, 270-279	0.2	