

Sotirios G Ziavras

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4198135/sotirios-g-ziavras-publications-by-citations.pdf>

Version: 2024-04-28

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.

81
papers

476
citations

11
h-index

16
g-index

102
ext. papers

594
ext. citations

2.4
avg, IF

3.69
L-index

#	Paper	IF	Citations
81	On the Characterization and Optimization of On-Chip Cache Reliability against Soft Errors. <i>IEEE Transactions on Computers</i> , 2009 , 58, 1171-1184	2.5	33
80	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 1994 , 5, 1210-1220	3.7	32
79	Parallel LU factorization of sparse matrices on FPGA-based configurable computing engines. <i>Concurrency Computation Practice and Experience</i> , 2004 , 16, 319-343	1.4	23
78	Replicating Tag Entries for Reliability Enhancement in Cache Tag Arrays. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012 , 20, 643-654	2.6	20
77	Parallel solution of Newton's power flow equations on configurable chips. <i>International Journal of Electrical Power and Energy Systems</i> , 2007 , 29, 422-431	5.1	20
76	On the problem of expanding hypercube-based systems. <i>Journal of Parallel and Distributed Computing</i> , 1992 , 16, 41-53	4.4	17
75	Efficient hardware support for pattern matching in network intrusion detection. <i>Computers and Security</i> , 2010 , 29, 756-769	4.9	14
74	In-Register Duplication: Exploiting Narrow-Width Value for Improving Register File Reliability		13
73	Evaluating the communications capabilities of the generalized hypercube interconnection network. <i>Concurrency and Computation: Practice and Experience</i> , 1999 , 11, 281-300		13
72	Wireless sensor network-based pattern matching technique for the circumvention of environmental and stimuli-related variability in structural health monitoring. <i>IET Wireless Sensor Systems</i> , 2016 , 6, 26-33	1.6	12
71	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2009 , 17, 953-963	2.6	11
70	Novel Pipelined Architecture for Efficient Evaluation of the Square Root Using a Modified Non-Restoring Algorithm. <i>Journal of Signal Processing Systems</i> , 2012 , 67, 157-166	1.4	10
69	Self-Adaptive Data Caches for Soft-Error Reliability. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2008 , 27, 1503-1507	2.5	10
68	On the Characterization of Data Cache Vulnerability in High-Performance Embedded Microprocessors 2006 ,		10
67	Multicore-based vector coprocessor sharing for performance and energy gains. <i>Transactions on Embedded Computing Systems</i> , 2013 , 13, 1-25	1.8	9
66	FPGA and ASIC square root designs for high performance and power efficiency 2013 ,		9
65	Optimizing the thermal behavior of subarrayed data caches		9

64	A super-programming approach for mining association rules in parallel on PC clusters. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2004 , 15, 783-794	3.7	9
63	Pyramid mappings onto hypercubes for computer vision: Connection machine comparative study. <i>Concurrency and Computation: Practice and Experience</i> , 1993 , 5, 471-489		9
62	Runtime Partial Reconfiguration for Embedded Vector Processors 2007 ,		8
61	Asymmetrically Banked Value-Aware Register Files 2007 ,		8
60	FPGA implementation of a Cholesky algorithm for a shared-memory multiprocessor architecture. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2004 , 19, 211-226		8
59	Data broadcasting and reduction, prefix computation, and sorting on reduced hypercube parallel computers. <i>Parallel Computing</i> , 1996 , 22, 595-606	1	8
58	Pipelined implementation of fixed point square root in FPGA using modified non-restoring algorithm 2010 ,		7
57	Coprocessor design to support MPI primitives in configurable multiprocessors. <i>The Integration VLSI Journal</i> , 2007 , 40, 235-252	1.4	7
56	2007 ,		7
55	SCALABLE MULTIFOLDED HYPERCUBES FOR VERSATILE PARALLEL COMPUTERS. <i>Parallel Processing Letters</i> , 1995 , 05, 241-250	0.3	7
54	Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 1003-1012	7.3	7
53	Performance-Energy Optimizations for Shared Vector Accelerators in Multicores. <i>IEEE Transactions on Computers</i> , 2015 , 64, 805-817	2.5	6
52	A Method to Measure Packet Processing Time of Hosts Using High-Speed Transmission Lines. <i>IEEE Systems Journal</i> , 2015 , 9, 1248-1251	4.3	5
51	On-chip Vector Coprocessor Sharing for Multicores 2011 ,		5
50	Online Anonymity Protection in Computer-Mediated Communication. <i>IEEE Transactions on Information Forensics and Security</i> , 2010 , 5, 570-580	8	5
49	Asymmetrically banked value-aware register files for low-energy and high-performance. <i>Microprocessors and Microsystems</i> , 2008 , 32, 171-182	2.4	5
48	A Universal, Dynamically Adaptable and Programmable Network Router for Parallel Computers. <i>VLSI Design</i> , 2001 , 12, 25-52		5
47	Adaptive Multiresolution Structures for Image Processing on Parallel Computers. <i>Journal of Parallel and Distributed Computing</i> , 1994 , 23, 475-483	4.4	5

46	2009,		4
45	Preventing Unwanted Social Inferences with Classification Tree Analysis 2009,		4
44	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 1993 , 4, 1230-1245	3.7	4
43	Wireless sensor network-based infrastructure damage detection constrained by energy consumption 2016,		4
42	Resource-Driven Optimizations for Transient-Fault Detecting SuperScalar Microarchitectures. <i>Lecture Notes in Computer Science</i> , 2005 , 200-214	0.9	4
41	Re-Configurable Parallel Match Evaluators Applied to Scheduling Schemes for Input-Queued Packet Switches 2009,		3
40	Concatenating Packets in Variable-Length Input-Queued Packet Switches with Cell-Based and Packet-Based Scheduling 2008,		3
39	Vector Processing Support for FPGA-Oriented High Performance Applications 2007,		3
38	FPGA-based vector processing for solving sparse sets of equations		3
37	An FPGA-Based Parallel Accelerator for Matrix Multiplications in the Newton-Raphson Method. <i>Lecture Notes in Computer Science</i> , 2005 , 458-468	0.9	3
36	2006,		3
35	Investigation of Various Mesh Architectures With Broadcast Buses for High-Performance Computing. <i>VLSI Design</i> , 1999 , 9, 29-54		3
34	FACILITATING HIGH-PERFORMANCE IMAGE ANALYSIS ON REDUCED HYPERCUBE (RH) PARALLEL COMPUTERS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1995 , 09, 679-698	1.1	3
33	Parallel DSP algorithms on TurboNet: an experimental system with hybrid message-passing/shared-memory architecture. <i>Concurrency and Computation: Practice and Experience</i> , 1996 , 8, 387-411		3
32	Connected component labelling on the BLITZEN massively parallel processor. <i>Image and Vision Computing</i> , 1993 , 11, 665-668	3.7	3
31	Efficient infrastructure damage detection and localization using wireless sensor networks, with cluster generation for monitoring damage progression 2017,		2
30	Modular vector processor architecture targeting at data-level parallelism. <i>Microprocessors and Microsystems</i> , 2015 , 39, 237-249	2.4	2
29	ASIC Design of Shared Vector Accelerators for Multicore Processors 2014,		2

28	Versatile design of shared vector coprocessors for multicores. <i>Microprocessors and Microsystems</i> , 2012 , 36, 543-554	2.4	2
27	2010 ,		2
26	Hardware-Based Speed Up of Face Recognition Towards Real-Time Performance 2010 ,		2
25	TRB: Tag Replication Buffer for Enhancing the Reliability of the Cache Tag Array 2010 ,		2
24	BTB Access Filtering: A Low Energy and High Performance Design 2008 ,		2
23	A framework for dynamic resource assignment and scheduling on reconfigurable mixed-mode on-chip multiprocessors		2
22	Dataflow computation with intelligent memories emulated on field-programmable gate arrays (FPGAs). <i>Microprocessors and Microsystems</i> , 2002 , 26, 263-280	2.4	2
21	Improved algorithms for translation of pictures represented by leaf codes. <i>Image and Vision Computing</i> , 1988 , 6, 13-20	3.7	2
20	Vector Coprocessor Virtualization for Simultaneous Multithreading. <i>Transactions on Embedded Computing Systems</i> , 2016 , 15, 1-25	1.8	2
19	Packet classification using rule caching 2013 ,		1
18	Efficient structural health monitoring with wireless sensor networks using a vibration-based frequency domain pattern matching technique 2017 ,		1
17	A multiprocessor-on-a-programmable-chip reconfigurable system for matrix operations with power-grid case studies. <i>International Journal of Computational Science and Engineering</i> , 2015 , 10, 181	0.4	1
16	Scheduling for input-queued packet switches by a re-configurable parallel match evaluator. <i>IEEE Communications Letters</i> , 2010 , 14, 357-359	3.8	1
15	Processor design based on dataflow concurrency. <i>Microprocessors and Microsystems</i> , 2003 , 27, 199-220	2.4	1
14	Modeling distributed data representation and its effect on parallel data accesses. <i>Journal of Parallel and Distributed Computing</i> , 2005 , 65, 1281-1289	4.4	1
13			1
12	High-performance emulation of hierarchical structures on hypercube supercomputers. <i>Concurrency and Computation: Practice and Experience</i> , 1994 , 6, 85-100		1
11	Novel FPGA-Based Signature Matching for Deep Packet Inspection. <i>Lecture Notes in Computer Science</i> , 2010 , 261-276	0.9	1

10	Exploring branch target buffer access filtering for low-energy and high-performance microarchitectures. <i>IET Computers and Digital Techniques</i> , 2012 , 6, 50	0.9	o
9	Efficient face recognition using frequency distribution curve matching. <i>IET Image Processing</i> , 2012 , 6, 1161-1169	1.7	o
8	Connection Machine results for pyramid embedding algorithms. <i>Lecture Notes in Computer Science</i> , 1992 , 31-36	0.9	o
7	Instruction Fusion for Multiscalar and Many-Core Processors. <i>International Journal of Parallel Programming</i> , 2017 , 45, 67-78	1.5	
6	Parallel generation of adaptive multiresolution structures for image processing. <i>Concurrency and Computation: Practice and Experience</i> , 1997 , 9, 241-254		
5	Robust scalability analysis and SPM case studies. <i>Journal of Supercomputing</i> , 2008 , 43, 199-223	2.5	
4	A new-generation parallel computer and its performance evaluation. <i>Future Generation Computer Systems</i> , 2000 , 17, 315-333	7.5	
3	Material identification algorithms for parallel systems. <i>Computers and Electrical Engineering</i> , 1996 , 22, 325-341	4.3	
2	Binary trees of modified hypercubes: a family of networks for hypercube-like parallel computers. <i>International Journal of Electronics</i> , 1994 , 76, 27-36	1.2	
1	FACILITATING HIGH-PERFORMANCE IMAGE ANALYSIS ON REDUCED HYPERCUBE (RH) PARALLEL COMPUTERS. <i>Series in Machine Perception and Artificial Intelligence</i> , 1995 , 23-42	0.3	