# Chun Jason Xue

#### List of Publications by Citations

Source: https://exaly.com/author-pdf/5473865/chun-jason-xue-publications-by-citations.pdf

Version: 2024-04-20

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.

166<br/>papers1,737<br/>citations20<br/>h-index32<br/>g-index192<br/>ext. papers2,130<br/>ext. citations2.4<br/>avg, IF4.76<br/>L-index

#	Paper	IF	Citations
166	Emerging non-volatile memories <b>2011</b> ,		121
165	Reducing write activities on non-volatile memories in embedded CMPs via data migration and recomputation <b>2010</b> ,		79
164	STT-RAM based energy-efficiency hybrid cache for CMPs <b>2011</b> ,		53
163	Dynamic localisation of mature microRNAs in Human nucleoli is influenced by exogenous genetic materials. <i>PLoS ONE</i> , <b>2013</b> , 8, e70869	3.7	45
162	Exploiting parallelism in I/O scheduling for access conflict minimization in flash-based solid state drives <b>2014</b> ,		42
161	Data Allocation Optimization for Hybrid Scratch Pad Memory With SRAM and Nonvolatile Memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2013</b> , 21, 1094-1102	2.6	41
160	Minimizing WCET for Real-Time Embedded Systems via Static Instruction Cache Locking 2009,		41
159	Write activity reduction on flash main memory via smart victim cache 2010,		41
158	Software Enabled Wear-Leveling for Hybrid PCM Main Memory on Embedded Systems 2013,		37
157	Quality-retaining OLED dynamic voltage scaling for video streaming applications on mobile devices <b>2012</b> ,		35
156	Write Activity Minimization for Nonvolatile Main Memory Via Scheduling and Recomputation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2011</b> , 30, 584-592	2.5	34
155	SLC-enabled Wear Leveling for MLC PCM Considering Process Variation 2014,		31
154	Compiler-Assisted STT-RAM-Based Hybrid Cache for Energy Efficient Embedded Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2014</b> , 22, 1829-1840	2.6	30
153	Write activity reduction on non-volatile main memories for embedded chip multiprocessors. <i>Transactions on Embedded Computing Systems</i> , <b>2013</b> , 12, 1-27	1.8	30
152	MAC <b>2012</b> ,		28
151	ExLRU <b>2011</b> ,		26
150	Solar Power Prediction Assisted Intra-task Scheduling for Nonvolatile Sensor Nodes. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 724-737	2.5	24

149	Task Assignment with Cache Partitioning and Locking for WCET Minimization on MPSoC 2010,		23
148	Improving LDPC performance via asymmetric sensing level placement on flash memory <b>2017</b> ,		21
147	Minimizing Access Cost for Multiple Types of Memory Units in Embedded Systems Through Data Allocation and Scheduling. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 3253-3263	4.8	21
146	Retention Trimming for Lifetime Improvement of Flash Memory Storage Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 58-71	2.5	20
145	Exploiting Process Variation for Write Performance Improvement on NAND Flash Memory Storage Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2016</b> , 24, 334-337	2.6	19
144	Instruction cache locking for multi-task real-time embedded systems. <i>Real-Time Systems</i> , <b>2012</b> , 48, 166-	1 <del>9.</del> 3	19
143	Low Overhead Software Wear Leveling for Hybrid PCM + DRAM Main Memory on Embedded Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 654-663	2.6	18
142	Exploiting Parallelism for Access Conflict Minimization in Flash-Based Solid State Drives. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 168-181	2.5	18
141	Task Allocation on Nonvolatile-Memory-Based Hybrid Main Memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2013</b> , 21, 1271-1284	2.6	17
140	Management and optimization for nonvolatile memory-based hybrid scratchpad memory on multicore embedded processors. <i>Transactions on Embedded Computing Systems</i> , <b>2014</b> , 13, 1-25	1.8	17
139	Stack-Size Sensitive On-Chip Memory Backup for Self-Powered Nonvolatile Processors. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1804-1816	2.5	16
138	ApproxFTL: On the Performance and Lifetime Improvement of 3-D NAND Flash-Based SSDs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 1957-1970	2.5	16
137	Exploiting set-level write non-uniformity for energy-efficient NVM-based hybrid cache 2011,		16
136	Software assisted non-volatile register reduction for energy harvesting based cyber-physical system <b>2015</b> ,		16
135	Data Backup Optimization for Nonvolatile SRAM in Energy Harvesting Sensor Nodes. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1660-1673	2.5	15
134	Data Rate Fingerprinting: A WLAN-Based Indoor Positioning Technique for Passive Localization. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 6517-6529	4	15
133	Minimizing MLC PCM write energy for free through profiling-based state remapping 2015,		15
132	Compiler-Assisted Refresh Minimization for Volatile STT-RAM Cache. <i>IEEE Transactions on Computers</i> , <b>2015</b> , 64, 2169-2181	2.5	15

131	Cooperating Write Buffer Cache and Virtual Memory Management for Flash Memory Based Systems <b>2011</b> ,		15	
130	Loop scheduling and bank type assignment for heterogeneous multi-bank memory. <i>Journal of Parallel and Distributed Computing</i> , <b>2009</b> , 69, 546-558	4.4	15	
129	Wear Relief for High-Density Phase Change Memory Through Cell Morphing Considering Process Variation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 227-	237	14	
128	Joint task assignment and cache partitioning with cache locking for WCET minimization on MPSoC. <i>Journal of Parallel and Distributed Computing</i> , <b>2011</b> , 71, 1473-1483	4.4	14	
127	Iterational retiming with partitioning. <i>Transactions on Embedded Computing Systems</i> , <b>2010</b> , 9, 1-26	1.8	14	
126	Reprogramming with Minimal Transferred Data on Wireless Sensor Network 2009,		14	
125	Wear-Leveling Aware Page Management for Non-Volatile Main Memory on Embedded Systems. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2016</b> , 2, 129-142		13	
124	Reducing LDPC Soft Sensing Latency by Lightweight Data Refresh for Flash Read Performance Improvement <b>2017</b> ,		13	
123	Instruction Cache Locking for Embedded Systems using Probability Profile. <i>Journal of Signal Processing Systems</i> , <b>2012</b> , 69, 173-188	1.4	13	
122	Low-energy volatile STT-RAM cache design using cache-coherence-enabled adaptive refresh. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2013</b> , 19, 1-23	1.5	13	
121	Compiler-assisted preferred caching for embedded systems with STT-RAM based hybrid cache <b>2012</b> ,		13	
120	Minimizing Retention Induced Refresh Through Exploiting Process Variation of Flash Memory. <i>IEEE Transactions on Computers</i> , <b>2019</b> , 68, 83-98	2.5	12	
119	Error Model Guided Joint Performance and Endurance Optimization for Flash Memory. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 343-355	2.5	12	
118	Leveling to the last mile: Near-zero-cost bit level wear leveling for PCM-based main memory 2014,		12	
117	Cooperating Virtual Memory and Write Buffer Management for Flash-Based Storage Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2013</b> , 21, 706-719	2.6	12	
116	Efficient Data Placement for Improving Data Access Performance on Domain-Wall Memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2016</b> , 24, 3094-3104	2.6	12	
115	Hybrid nonvolatile disk cache for energy-efficient and high-performance systems. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2013</b> , 18, 1-23	1.5	11	
114	Register allocation for write activity minimization on non-volatile main memory <b>2011</b> ,		11	

## (2018-2009)

Combining Coarse-Grained Software Pipelining with DVS for Scheduling Real-Time Periodic Dependent Tasks on Multi-Core Embedded Systems. <i>Journal of Signal Processing Systems</i> , <b>2009</b> , 57, 249-2	26 <sup>1</sup> 2	11	
State Asymmetry Driven State Remapping in Phase Change Memory. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 27-40	2.5	10	
MGC: Multiple graph-coloring for non-volatile memory based hybrid Scratchpad Memory 2012,		10	
Exploiting process variation for retention induced refresh minimization on flash memory 2016,		10	
Maximizing IO performance via conflict reduction for flash memory storage systems 2015,		10	
EMC: Energy-Aware Morphable Cache Design for Non-Volatile Processors. <i>IEEE Transactions on Computers</i> , <b>2019</b> , 68, 498-509	2.5	10	
Migration-Aware Loop Retiming for STT-RAM-Based Hybrid Cache in Embedded Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 329-342	2.5	9	
Exploit asymmetric error rates of cell states to improve the performance of flash memory storage systems <b>2014</b> ,		9	
Minimizing write activities to non-volatile memory via scheduling and recomputation 2010,		9	
Register allocation for hybrid register architecture in nonvolatile processors 2014,		8	
A Unified Write Buffer Cache Management Scheme for Flash Memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2014</b> , 22, 2779-2792	2.6	8	
Register allocation for write activity minimization on non-volatile main memory for embedded systems. <i>Journal of Systems Architecture</i> , <b>2012</b> , 58, 13-23	5.5	8	
Cache coherence enabled adaptive refresh for volatile STT-RAM 2013,		8	
Power-Aware Variable Partitioning for DSPs With Hybrid PRAM and DRAM Main Memory. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 3509-3520	4.8	8	
Sleep-aware variable partitioning for energy-efficient hybrid PRAM and DRAM main memory 2014,		8	
Acceleration of Composite Order Bilinear Pairing on Graphics Hardware. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 341-348	0.9	8	
An I/O Scheduling Strategy for Embedded Flash Storage Devices With Mapping Cache. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 756-769	2.5	8	
Exploiting Chip Idleness for Minimizing Garbage CollectionInduced Chip Access Conflict on SSDs.  ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-29	1.5	8	
	Dependent Tasks on Multi-Core Embedded Systems. Journal of Signal Processing Systems, 2009, 57, 249- State Asymmetry Driven State Remapping in Phase Change Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 27-40  MGC: Multiple graph-coloring for non-volatile memory based hybrid Scratchpad Memory 2012,  Exploiting process variation for retention induced refresh minimization on flash memory 2016.  Maximizing IO performance via conflict reduction for flash memory storage systems 2015,  EMC: Energy-Aware Morphable Cache Design for Non-Volatile Processors. IEEE Transactions on Computers, 2019, 68, 498-509  Migration-Aware Loop Retiming for STT-RAM-Based Hybrid Cache in Embedded Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2014, 33, 329-342  Exploit asymmetric error rates of cell states to improve the performance of flash memory storage systems 2014.  Minimizing write activities to non-volatile memory via scheduling and recomputation 2010,  Register allocation for hybrid register architecture in nonvolatile processors 2014.  A Unified Write Buffer Cache Management Scheme for Flash Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2779-2792  Register allocation for write activity minimization on non-volatile main memory for embedded systems. Journal of Systems Architecture, 2012, 58, 13-23  Cache coherence enabled adaptive refresh for volatile STT-RAM 2013,  Power-Aware Variable Partitioning for DSPs With Hybrid PRAM and DRAM Main Memory. IEEE Transactions on Signal Processing, 2013, 61, 3509-3520  Sleep-aware variable partitioning for energy-efficient hybrid PRAM and DRAM main memory 2014,  Acceleration of Composite Order Bilinear Pairing on Graphics Hardware. Lecture Notes in Computer Science, 2012, 341-348  An I/O Scheduling Strategy for Embedded Flash Storage Devices With Mapping Cache. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 756-769  Exploitin	Dependent Tasks on Multi-Core Embedded Systems. Journal of Signal Processing Systems, 2009, 57, 249-262  State Asymmetry Driven State Remapping in Phase Change Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 27-40  MGC: Multiple graph-coloring for non-volatile memory based hybrid Scratchpad Memory 2012,  Exploiting process variation for retention induced refresh minimization on flash memory 2016,  Maximizing IO performance via conflict reduction for flash memory storage systems 2015,  EMC: Energy-Aware Morphable Cache Design for Non-Volatile Processors. IEEE Transactions on Computers, 2019, 68, 498-509  Migration-Aware Loop Retiming for STT-RAM-Based Hybrid Cache in Embedded Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2014, 33, 329-342  Exploit asymmetric error rates of cell states to improve the performance of flash memory storage systems 2014,  Minimizing write activities to non-volatile memory via scheduling and recomputation 2010,  Register allocation for hybrid register architecture in nonvolatile processors 2014,  A Unified Write Buffer Cache Management Scheme for Flash Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2779-2792  Register allocation for write activity minimization on non-volatile main memory for embedded systems. Journal of Systems Architecture, 2012, 58, 13-23  Cache coherence enabled adaptive refresh for volatile STT-RAM 2013,  Power-Aware Variable Partitioning for DSPs With Hybrid PRAM and DRAM Main Memory. IEEE Transactions on Signal Processing, 2013, 61, 3509-3520  4.8  Sleep-aware variable partitioning for energy-efficient hybrid PRAM and DRAM main memory 2014,  Acceleration of Composite Order Bilinear Pairing on Graphics Hardware. Lecture Notes in Computer Science, 2012, 341-348  An I/O Scheduling Strategy for Embedded Flash Storage Devices With Mapping Cache. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 756-769	State Asymmetry Driven State Remapping in Phase Change Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 27-40  MGC: Multiple graph-coloring for non-volatile memory based hybrid Scratchpad Memory 2012, 10  MGC: Multiple graph-coloring for non-volatile memory based hybrid Scratchpad Memory 2016, 10  Exploiting process variation for retention induced refresh minimization on flash memory 2016, 10  Maximizing IO performance via conflict reduction for flash memory storage systems 2015, 10  Maximizing IO performance via conflict reduction for flash memory storage systems 2015, 10  EMC: Energy-Aware Morphable Cache Design for Non-Volatile Processors. IEEE Transactions on Computers, 2019, 68, 498-509  Migration-Aware Loop Retiming for STT-RAM-Based Hybrid Cache in Embedded Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2014, 33, 329-342 2.5 9  Exploit asymmetric error rates of cell states to improve the performance of flash memory storage systems 2014, 10  Minimizing write activities to non-volatile memory via scheduling and recomputation 2010, 20  Register allocation for hybrid register architecture in nonvolatile processors 2014, 20  A Unified Write Buffer Cache Management Scheme for Flash Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2779-2792 2.6 8  Register allocation for write activity minimization on non-volatile main memory for embedded systems. Journal of Systems Architecture, 2012, 58, 13-23 3.6  Cache coherence enabled adaptive refresh for volatile STT-RAM 2013, 20  Seepaware Variable Partitioning for DSPs With Hybrid PRAM and DRAM Main Memory. IEEE Transactions on Signal Processing, 2013, 61, 3509-3520 3.8  Sleep-aware variable partitioning for energy-efficient hybrid PRAM and DRAM main memory 2014, 20  Acceleration of Composite Order Bilinear Pairing on Graphics Hardware. Lecture Notes in Computer Science, 2012, 341-348 3.8  An I/O Scheduling Strategy for Embedded Flash Storage Devi

95	Online OLED dynamic voltage scaling for video streaming applications on mobile devices 2013,		7
94	Maximizing Forward Progress with Cache-aware Backup for Self-powered Non-volatile Processors <b>2017</b> ,		7
93	Training neural-network-based controller on distributed machine learning platform for power electronics systems <b>2017</b> ,		7
92	Scheduling to Optimize Cache Utilization for Non-Volatile Main Memories. <i>IEEE Transactions on Computers</i> , <b>2014</b> , 63, 2039-2051	2.5	7
91	Optimizing Data Allocation and Memory Configuration for Non-Volatile Memory Based Hybrid SPM on Embedded CMPs <b>2012</b> ,		7
90	Instruction Cache Locking for Real-Time Embedded Systems with Multi-tasks 2009,		7
89	Optimized address assignment with array and loop transformations for minimizing schedule length. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2008</b> , 55, 379-389	3.9	7
88	Address assignment sensitive variable partitioning and scheduling for DSPS with multiple memory banks. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	7
87	A Wear Leveling Aware Memory Allocator for Both Stack and Heap Management in PCM-based Main Memory Systems <b>2019</b> ,		6
86	An empirical study of F2FS on mobile devices <b>2017</b> ,		6
86 85	An empirical study of F2FS on mobile devices <b>2017</b> ,  LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips <b>2010</b> ,		6
85	LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips <b>2010</b> ,	4.4	6
8 <sub>5</sub>	LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips <b>2010</b> ,  Towards energy efficient hybrid on-chip Scratch Pad Memory with non-volatile memory <b>2011</b> ,  Sleep-aware mode assignment in wireless embedded systems. <i>Journal of Parallel and Distributed</i>	4.4	6
85 84 83	LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips <b>2010</b> ,  Towards energy efficient hybrid on-chip Scratch Pad Memory with non-volatile memory <b>2011</b> ,  Sleep-aware mode assignment in wireless embedded systems. <i>Journal of Parallel and Distributed Computing</i> , <b>2011</b> , 71, 1002-1010	4.4	6 6
85 84 83 82	LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips 2010,  Towards energy efficient hybrid on-chip Scratch Pad Memory with non-volatile memory 2011,  Sleep-aware mode assignment in wireless embedded systems. <i>Journal of Parallel and Distributed Computing</i> , 2011, 71, 1002-1010  1+1>2: variation-aware lifetime enhancement for embedded 3D NAND flash systems 2019,  Energy Optimal Task Scheduling with Normally-Off Local Memory and Sleep-Aware Shared Memory		6 6 6 5
85 84 83 82 81	LADPM: Latency-Aware Dual-Partition Multicast Routing for Mesh-Based Network-on-Chips 2010,  Towards energy efficient hybrid on-chip Scratch Pad Memory with non-volatile memory 2011,  Sleep-aware mode assignment in wireless embedded systems. <i>Journal of Parallel and Distributed Computing</i> , 2011, 71, 1002-1010  1+1>2: variation-aware lifetime enhancement for embedded 3D NAND flash systems 2019,  Energy Optimal Task Scheduling with Normally-Off Local Memory and Sleep-Aware Shared Memory with Access Conflict. <i>IEEE Transactions on Computers</i> , 2018, 1-1  NVM-Based FPGA Block RAM With Adaptive SLC-MLC Conversion. <i>IEEE Transactions on</i>	2.5	6 6 6 5

77	Maximizing common idle time on multi-core processors with shared memory 2015,		5
76	Branch Prediction-Directed Dynamic Instruction Cache Locking for Embedded Systems. <i>Transactions on Embedded Computing Systems</i> , <b>2014</b> , 13, 1-24	1.8	5
75	Optimal task allocation on non-volatile memory based hybrid main memory 2011,		5
74	Optimizing Scheduling and Intercluster Connection for Application-Specific DSP Processors. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 4538-4547	4.8	5
73	Compiler directed write-mode selection for high performance low power volatile PCM. <i>ACM SIGPLAN Notices</i> , <b>2013</b> , 48, 101-110	0.2	5
72	File Fragmentation in Mobile Devices: Measurement, Evaluation, and Treatment. <i>IEEE Transactions on Mobile Computing</i> , <b>2019</b> , 18, 2062-2076	4.6	5
71	Checkpointing-Aware Loop Tiling for Energy Harvesting Powered Nonvolatile Processors. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 15-28	2.5	5
70	Boosting the Performance of SSDs via Fully Exploiting the Plane Level Parallelism. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2020</b> , 31, 2185-2200	3.7	4
69	Race to idle or not: balancing the memory sleep time with DVS for energy minimization. <i>Journal of Combinatorial Optimization</i> , <b>2018</b> , 35, 860-894	0.9	4
68	Real-Time Data Retrieval With Multiple Availability Intervals in CPS Under Freshness Constraints. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 2743-2754	2.5	4
67	Minimizing accumulative memory load cost on multi-core DSPs with multi-level memory. <i>Journal of Systems Architecture</i> , <b>2013</b> , 59, 389-399	5.5	4
66	DVFS-Based Long-Term Task Scheduling for Dual-Channel Solar-Powered Sensor Nodes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2017</b> , 25, 2981-2994	2.6	4
65	Retention trimming for wear reduction of flash memory storage systems 2014,		4
64	Write Mode Aware Loop Tiling for High Performance Low Power Volatile PCM <b>2014</b> ,		4
63	WCET-aware re-scheduling register allocation for real-time embedded systems with clustered VLIW architecture <b>2012</b> ,		4
62	Timing optimization via nest-loop pipelining considering code size. <i>Microprocessors and Microsystems</i> , <b>2008</b> , 32, 351-363	2.4	4
61	Energy, latency, and lifetime improvements in MLC NVM with enhanced WOM code 2018,		3
60	Write Mode Aware Loop Tiling for High Performance Low Power Volatile PCM in Embedded Systems. <i>IEEE Transactions on Computers</i> , <b>2016</b> , 65, 2313-2324	2.5	3

59	A wear-leveling-aware dynamic stack for PCM memory in embedded systems 2014,		3
58	Loop fusion and reordering for register file optimization on stream processors. <i>Journal of Systems and Software</i> , <b>2012</b> , 85, 1673-1681	3.3	3
57	Memory access schedule minimization for embedded systems. <i>Journal of Systems Architecture</i> , <b>2012</b> , 58, 48-59	5.5	3
56	Migration-aware loop retiming for STT-RAM based hybrid cache for embedded systems <b>2013</b> ,		3
55	Joint WCET and Update Activity Minimization for Cyber-Physical Systems. <i>Transactions on Embedded Computing Systems</i> , <b>2015</b> , 14, 1-21	1.8	3
54	Code Motion for Migration Minimization in STT-RAM Based Hybrid Cache <b>2012</b> ,		3
53	Register allocation for embedded systems to simultaneously reduce energy and temperature on registers. <i>Transactions on Embedded Computing Systems</i> , <b>2013</b> , 13, 1-26	1.8	3
52	Energy-Efficient Joint Scheduling and Application-Specific Interconnection Design. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2011</b> , 19, 1813-1822	2.6	3
51	Analysis and approximation for bank selection instruction minimization on partitioned memory architecture <b>2010</b> ,		3
50	Optimal scheduling to minimize non-volatile memory access time with hardware cache 2010,		3
49	Real-Time Loop Scheduling with Leakage Energy Minimization for Embedded VLIW DSP Processors. <i>Gifted and Talented International</i> , <b>2007</b> ,	1	3
48	Dynamic merging/splitting for better responsiveness in mobile devices 2016,		3
47	Process Variation Aware Read Performance Improvement for LDPC-Based nand Flash Memory. <i>IEEE Transactions on Reliability</i> , <b>2020</b> , 69, 310-321	4.6	3
46	Work-in-Progress: Revisiting Wear Leveling Design on Compression Applied 3D NAND Flash Memory <b>2018</b> ,		3
45	Maximizing Common Idle Time on Multicore Processors With Shared Memory. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2017</b> , 25, 2095-2108	2.6	2
44	Improving MLC PCM write throughput by write reconstruction 2015,		2
43	C3: Cooperative Code Positioning and Cache Locking for WCET Minimization 2015,		2
42	Access Characteristic Guided Read and Write Regulation on Flash Based Storage Systems. <i>IEEE Transactions on Computers</i> , <b>2018</b> , 67, 1663-1676	2.5	2

## (2013-2019)

41	Real-Time Data Retrieval in Cyber-Physical Systems with Temporal Validity and Data Availability Constraints. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2019</b> , 31, 1779-1793	4.2	2
40	Reinforcement Learning based Background Segment Cleaning for Log-structured File System on Mobile Devices <b>2019</b> ,		2
39	Thread Criticality Assisted Replication and Migration for Chip Multiprocessor Caches. <i>IEEE Transactions on Computers</i> , <b>2017</b> , 66, 1747-1762	2.5	2
38	Joint Profit and Process Variation Aware High Level Synthesis With Speed Binning. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 1640-1650	2.6	2
37	Compiler directed write-mode selection for high performance low power volatile PCM 2013,		2
36	Energy-aware register file re-partitioning for clustered VLIW architectures 2009,		2
35	2011,		2
34	Minimizing Memory Access Schedule for Memories 2009,		2
33	Effective Loop Partitioning and Scheduling under Memory and Register Dual Constraints 2008,		2
32	Applying Multiple Level Cell to Non-volatile FPGAs. <i>Transactions on Embedded Computing Systems</i> , <b>2020</b> , 19, 1-22	1.8	2
31	Race to idle or not: Balancing the memory sleep time with DVS for energy minimization 2015,		2
30	Peak-to-average pumping efficiency improvement for charge pump in Phase Change Memories <b>2016</b> ,		2
29	Shadow Block: Accelerating ORAM Accesses with Data Duplication 2018,		2
28	CP-FPGA: Energy-Efficient Nonvolatile FPGA With Offline/Online Checkpointing Optimization. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2017</b> , 25, 2153-2163	2.6	1
27	Improving read performance via selective Vpass reduction on high density 3D NAND flash memory <b>2017</b> ,		1
26	A wear-leveling-aware dynamic stack for PCM memory in embedded systems <b>2014</b> ,		1
25	Analysis and approximation for bank selection instruction minimization on partitioned memory architecture. <i>Journal of Combinatorial Optimization</i> , <b>2012</b> , 23, 274-291	0.9	1
24	2013,		1

23	Thread Progress Aware Coherence Adaption for Hybrid Cache Coherence Protocols. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2014</b> , 25, 2697-2707	3.7	1
22	Dual partitioning multicasting for high-performance on-chip networks. <i>Journal of Parallel and Distributed Computing</i> , <b>2014</b> , 74, 1858-1871	4.4	1
21	Poster Abstract: Smart Phone Lift for Improving Energy Efficiency and User Comfort in Green Buildings <b>2012</b> ,		1
20	Compiler-assisted refresh minimization for volatile STT-RAM cache 2013,		1
19	Data re-allocation enabled cache locking for embedded systems 2013,		1
18	Co-optimization of memory access and task scheduling on MPSoC architectures with multi-level memory <b>2010</b> ,		1
17	Joint variable partitioning and bank selection instruction optimization on embedded systems with multiple memory banks <b>2010</b> ,		1
16	TEACA: Thread ProgrEss Aware Coherence Adaption for hybrid coherence protocols 2012,		1
15	Variable Length Pattern Matching for Hardware Network Intrusion Detection System. <i>Journal of Signal Processing Systems</i> , <b>2010</b> , 59, 85-93	1.4	1
14	A Formal Specification and Verification Framework for Designing and Verifying Reliable and Dependable Software for Computerized Numerical Control (CNC) Systems <b>2008</b> ,		1
13	Minimizing Leakage Energy with Modulo Scheduling for VLIW DSP Processors. <i>International Federation for Information Processing</i> , <b>2008</b> , 111-120		1
12	Minimizing cell-to-cell interference by exploiting differential bit impact characteristics of scaled MLC NAND flash memories <b>2016</b> ,		1
11	Read-Ahead Efficiency on Mobile Devices: Observation, Characterization, and Optimization. <i>IEEE Transactions on Computers</i> , <b>2021</b> , 70, 99-110	2.5	1
10	. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, <b>2021</b> , 40, 1782-1795	2.5	1
9	Algorithms to Minimize Data Transfer for Code Update on Wireless Sensor Network. <i>Journal of Signal Processing Systems</i> , <b>2013</b> , 71, 143-157	1.4	
8	Guest Editorial Special Section on Memory Architectures and Organization. <i>IEEE Embedded Systems Letters</i> , <b>2012</b> , 4, 81-81	1	
7	Joint variable partitioning and bank selection instruction optimization for partitioned memory architectures. <i>Transactions on Embedded Computing Systems</i> , <b>2013</b> , 12, 1-27	1.8	
6	Migration-aware adaptive MPSoC static schedules with dynamic reconfigurability. <i>Journal of Parallel and Distributed Computing</i> , <b>2011</b> , 71, 1400-1410	4.4	

#### LIST OF PUBLICATIONS

5	Analysis and approximation for bank selection instruction minimization on partitioned memory architecture. <i>ACM SIGPLAN Notices</i> , <b>2010</b> , 45, 1-8	0.2
4	NetKernel: Making Network Stack Part of the Virtualized Infrastructure. <i>IEEE/ACM Transactions on Networking</i> , <b>2021</b> , 1-15	3.8
3	Single and Multiple Device DSA Problem, Complexities and Online Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 218-229	0.9
2	. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, <b>2021</b> , 1-1	2.5
1	Online Rare Category Identification and Data Diversification for Edge Computing. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5