

Nader Bagherzadeh

List of Publications by Citations

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

187 papers	1,626 citations	20 h-index	29 g-index
206 ext. papers	2,136 ext. citations	2.3 avg, IF	5.23 L-index

#	Paper	IF	Citations
187	Novel Robust Single Layer Wire Crossing Approach for Exclusive OR Sum of Products Logic Design with Quantum-Dot Cellular Automata. <i>Journal of Low Power Electronics</i> , 2014 , 10, 259-271	1.2	113
186	Designing quantum-dot cellular automata counters with energy consumption analysis. <i>Microprocessors and Microsystems</i> , 2015 , 39, 512-520	2.4	52
185	A Wireless Network-on-Chip Design for Multicore Platforms 2011 ,		46
184	Design and Implementation of the MorphoSys Reconfigurable Computing Processor. <i>Journal of Signal Processing Systems</i> , 2000 , 24, 147-164		46
183	A variable frequency link for a power-aware network-on-chip (NoC). <i>The Integration VLSI Journal</i> , 2009 , 42, 479-485	1.4	39
182	Quantum-dot cellular automata circuits with reduced external fixed inputs. <i>Microprocessors and Microsystems</i> , 2017 , 50, 154-163	2.4	33
181	MorphoSys 2000 ,		32
180	Efficient Mitchell Approximate Log Multipliers for Convolutional Neural Networks. <i>IEEE Transactions on Computers</i> , 2019 , 68, 660-675	2.5	32
179	An energy and cost efficient majority-based RAM cell in quantum-dot cellular automata. <i>Results in Physics</i> , 2017 , 7, 3543-3551	3.7	30
178	Robust and energy-efficient carbon nanotube FET-based MVL gates: A novel design approach. <i>Microelectronics Journal</i> , 2015 , 46, 1333-1342	1.8	30
177	Design and Evaluation of a Spintronic In-Memory Processing Platform for Nonvolatile Data Encryption. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018 , 37, 1788-1801	2.5	26
176	Analytical Fault Tolerance Assessment and Metrics for TSV-Based 3D Network-on-Chip. <i>IEEE Transactions on Computers</i> , 2015 , 64, 3591-3604	2.5	26
175	A Resilient Routing Algorithm with Formal Reliability Analysis for Partially Connected 3D-NoCs. <i>IEEE Transactions on Computers</i> , 2016 , 65, 3265-3279	2.5	26
174	Quaternary full adder cells based on carbon nanotube FETs. <i>Journal of Computational Electronics</i> , 2015 , 14, 762-772	1.8	25
173	A Modulo Scheduling Algorithm for a Coarse-Grain Reconfigurable Array Template 2007 ,		25
172	Ultra-Efficient Fuzzy Min/Max Circuits Based on Carbon Nanotube FETs. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1073-1078	8.3	23
171	Method for designing ternary adder cells based on CNFETs. <i>IET Circuits, Devices and Systems</i> , 2017 , 11, 465-470	1.1	23

170	An energy and area efficient 4:2 compressor based on FinFETs. <i>The Integration VLSI Journal</i> , 2018 , 60, 224-231	1.4	22
169	Scalable load balancing congestion-aware Network-on-Chip router architecture. <i>Journal of Computer and System Sciences</i> , 2013 , 79, 421-439	1	20
168	Parallel FFT Algorithms on Network-on-Chips 2008 ,		20
167	Design and analysis of a mesh-based wireless network-on-chip. <i>Journal of Supercomputing</i> , 2015 , 71, 2830-2846	2.5	19
166	Hospital enterprise Architecture Framework (Study of Iranian University Hospital Organization). <i>International Journal of Medical Informatics</i> , 2018 , 114, 88-100	5.3	19
165	A high level power model for Network-on-Chip (NoC) router. <i>Computers and Electrical Engineering</i> , 2009 , 35, 837-845	4.3	19
164	Area and power-efficient innovative congestion-aware Network-on-Chip architecture. <i>Journal of Systems Architecture</i> , 2011 , 57, 24-38	5.5	19
163	Performance and Energy Aware Inhomogeneous 3D Networks-on-Chip Architecture Generation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016 , 27, 1756-1769	3.7	18
162	Fractional Derivatives Based Scheme for FDTD Modeling of n^{th} -Order Cole-Cole Dispersive Media. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 281-284	3.8	18
161	Parallel and Pipeline Processing for Block Cipher Algorithms on a Network-on-Chip 2009 ,		18
160	On Design and Analysis of a Feasible Network-on-Chip (NoC) Architecture 2007 ,		18
159	Design and Verification of New n-Bit Quantum-Dot Synchronous Counters Using Majority Function-Based JK Flip-Flops. <i>Journal of Circuits, Systems and Computers</i> , 2015 , 24, 1550153	0.9	17
158	Novel CNFET ternary circuit techniques for high-performance and energy-efficient design. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 193-202	1.1	17
157	ON DESIGN AND APPLICATION MAPPING OF A NETWORK-ON-CHIP(NOC) ARCHITECTURE. <i>Parallel Processing Letters</i> , 2008 , 18, 239-255	0.3	16
156	Design and implementation of the Tiny RISC microprocessor. <i>Microprocessors and Microsystems</i> , 1992 , 16, 187-193	2.4	16
155	A 3D universal structure based on molecular-QCA and CNT technologies. <i>Journal of Molecular Structure</i> , 2016 , 1119, 86-95	3.4	16
154	A load-balanced congestion-aware wireless network-on-chip design for multi-core platforms. <i>Microprocessors and Microsystems</i> , 2012 , 36, 555-570	2.4	15
153	Congestion-aware Network-on-Chip router architecture 2010 ,		15

152	The Effects of Approximate Multiplication on Convolutional Neural Networks. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2021 , 1-1	4.1	15
151	A novel low power Exclusive-OR via cell level-based design function in quantum cellular automata. <i>Journal of Computational Electronics</i> , 2017 , 16, 875-882	1.8	14
150	Energy and performance-aware application mapping for inhomogeneous 3D networks-on-chip. <i>Journal of Systems Architecture</i> , 2018 , 89, 103-117	5.5	14
149	SENSIBLE: A Highly Scalable SENSor DeSign for Path-Based Age Monitoring in FPGAs. <i>IEEE Transactions on Computers</i> , 2017 , 66, 919-926	2.5	14
148	A General Fault-Tolerant Minimal Routing for Mesh Architectures. <i>IEEE Transactions on Computers</i> , 2017 , 66, 1240-1246	2.5	12
147	Thermal TSV Optimization and Hierarchical Floorplanning for 3-D Integrated Circuits. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020 , 10, 599-610	1.7	12
146	First-Last: A Cost-Effective Adaptive Routing Solution for TSV-Based Three-Dimensional Networks-on-Chip. <i>IEEE Transactions on Computers</i> , 2018 , 67, 1430-1444	2.5	12
145	Increasing the throughput of an adaptive router in network-on-chip (NoC) 2006 ,		12
144	Design and evaluation of a high throughput QoS-aware and congestion-aware router architecture for Network-on-Chip. <i>Microprocessors and Microsystems</i> , 2014 , 38, 304-315	2.4	11
143	High-Efficient Circuits for Ternary Addition. <i>VLSI Design</i> , 2014 , 2014, 1-15		11
142	A machine-learning approach to predicting hypotensive events in ICU settings. <i>Computers in Biology and Medicine</i> , 2020 , 118, 103626	7	10
141	A Cost-Efficient Iterative Truncated Logarithmic Multiplication for Convolutional Neural Networks 2019 ,		10
140	From UML specifications to mapping and scheduling of tasks into a NoC, with reliability considerations. <i>Journal of Systems Architecture</i> , 2013 , 59, 429-440	5.5	10
139	An efficient voltage scaling algorithm for complex SoCs with few number of voltage modes 2004 ,		10
138	Robust Coplanar Full Adder Based on Novel Inverter in Quantum Cellular Automata. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 639-655	1.1	10
137	Parallel LDPC Decoding on a Network-on-Chip Based Multiprocessor Platform 2009 ,		9
136	The Star Connected Cycles: A Fixed-Degree Network For Parallel Processing 1993 ,		9
135	Adaptive HTF-MPR. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2020 , 11, 1-25	8	9

134	A Generic Network Interface Architecture for a Networked Processor Array (NePA) 2008 , 247-260	9
133	A high-performance fully programmable membership function generator based on 10nm gate-all-around CNTFETs. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 123, 1532-1538	8
132	Design of quaternary 4n and 5n compressors for nanotechnology. <i>Computers and Electrical Engineering</i> , 2016 , 56, 64-74	4.3 8
131	Capacitive and Inductive TSV-to-TSV Resilient Approaches for 3D ICs. <i>IEEE Transactions on Computers</i> , 2016 , 65, 693-705	2.5 8
130	Divisible Load Scheduling of Image Processing Applications on the Heterogeneous Star Network Using a new Genetic Algorithm 2018 ,	8
129	Ultra-low-power adder stage design for exascale floating point units. <i>Transactions on Embedded Computing Systems</i> , 2014 , 13, 1-24	1.8 8
128	Design and evaluation of a high throughput robust router for network-on-chip. <i>IET Computers and Digital Techniques</i> , 2012 , 6, 173	0.9 8
127	Design and Analysis of a Mesh-based Wireless Network-on-Chip 2012 ,	8
126	Design of a Feasible On-Chip Interconnection Network for a Chip Multiprocessor (CMP) 2007 ,	8
125	An Ultra-High Speed and Low Complexity Quantum-Dot Cellular Automata Full Adder. <i>Journal of Low Power Electronics</i> , 2015 , 11, 173-180	1.2 8
124	Voltage mirror circuit by carbon nanotube field effect transistors for mirroring dynamic random access memories in multiple-valued logic and fuzzy logic. <i>IET Circuits, Devices and Systems</i> , 2015 , 9, 343-352	1.1 7
123	Immunity of nanoscale magnetic tunnel junctions with perpendicular magnetic anisotropy to ionizing radiation. <i>Scientific Reports</i> , 2020 , 10, 10220	4.9 7
122	Loss-Aware Switch Design and Non-Blocking Detection Algorithm for Intra-Chip Scale Photonic Interconnection Networks. <i>IEEE Transactions on Computers</i> , 2016 , 65, 1789-1801	2.5 7
121	CompStor: An In-storage Computation Platform for Scalable Distributed Processing 2018 ,	7
120	TSV-to-TSV inductive coupling-aware coding scheme for 3D Network-on-Chip 2014 ,	7
119	Optimisations for LocSens – an indoor location tracking system using wireless sensors. <i>International Journal of Sensor Networks</i> , 2009 , 6, 157	0.8 7
118	Design of simulation and analytical models for a 2D-meshed asymmetric adaptive router. <i>IET Computers and Digital Techniques</i> , 2008 , 2, 63	0.9 7
117	Ultra-fast and efficient algorithm for energy optimization by gradient-based stochastic voltage and task scheduling. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2007 , 12, 39	1.5 7

116	Near-optimal message routing and broadcasting in faulty hypercubes. <i>International Journal of Parallel Programming</i> , 1990 , 19, 405-423	1.5	7
115	Efficient Parallel Buffer Structure and Its Management Scheme for a Robust Network-on-Chip (NoC) Architecture. <i>Communications in Computer and Information Science</i> , 2008 , 98-105	0.3	7
114	Flow mapping on mesh-based deep learning accelerator. <i>Journal of Parallel and Distributed Computing</i> , 2020 , 144, 80-97	4.4	7
113	Catalina: In-Storage Processing Acceleration for Scalable Big Data Analytics 2019 ,		6
112	Low-power implementation of Mitchell's approximate logarithmic multiplication for convolutional neural networks 2018 ,		6
111	STABLE: Stress-Aware Boolean Matching to Mitigate BTI-Induced SNM Reduction in SRAM-Based FPGAs. <i>IEEE Transactions on Computers</i> , 2018 , 67, 102-114	2.5	6
110	Flow mapping and data distribution on mesh-based deep learning accelerator 2019 ,		6
109	Analytical Reliability Analysis of 3D NoC under TSV Failure. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2015 , 11, 1-16	1.7	6
108	Coupling Mitigation in 3-D Multiple-Stacked Devices. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 2931-2944	2.6	6
107	A scalable delay insensitive asynchronous NoC with adaptive routing 2010 ,		6
106	Resource management and task partitioning and scheduling on a run-time reconfigurable embedded system. <i>Computers and Electrical Engineering</i> , 2009 , 35, 258-285	4.3	6
105	Gas-leak localization using distributed ultrasonic sensors 2009 ,		6
104	A Multi-Standard Viterbi Decoder for Mobile Applications Using a Reconfigurable Architecture 2006 ,		6
103	Kernel scheduling techniques for efficient solution space exploration in reconfigurable computing. <i>Journal of Systems Architecture</i> , 2001 , 47, 277-292	5.5	6
102	Performance issues of a superscalar microprocessor. <i>Microprocessors and Microsystems</i> , 1995 , 19, 187-192	2.4	6
101	Design and Power Analysis of New Coplanar One-Bit Full-Adder Cell in Quantum-Dot Cellular Automata. <i>Journal of Low Power Electronics</i> , 2018 , 14, 38-48	1.2	6
100	A combined three and five inputs majority gate-based high performance coplanar full adder in quantum-dot cellular automata. <i>International Journal of Information Technology (Singapore)</i> , 2021 , 13, 1165-1177	1.4	6
99	Reliable and Energy Efficient MLC STT-RAM Buffer for CNN Accelerators. <i>Computers and Electrical Engineering</i> , 2020 , 86, 106698	4.3	5

98	LEAD: An Adaptive 3D-NoC Routing Algorithm with Queuing-Theory Based Analytical Verification. <i>IEEE Transactions on Computers</i> , 2018 , 1-1	2.5	5
97	Design and Evaluation of a High Throughput QoS-Aware and Congestion-Aware Router Architecture for Network-on-Chip 2012 ,		5
96	Area and Power-efficient Innovative Network-on-Chip Architecture 2010 ,		5
95	A fast parallel reed-solomon decoder on a reconfigurable architecture 2003 ,		5
94	System-Level Analysis of 3D ICs with Thermal TSVs. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2018 , 14, 1-16	1.7	5
93	Self-optimized Routing in a Network on-a-Chip. <i>International Federation for Information Processing</i> , 2008 , 199-212		5
92	Toward efficient implementation of basic balanced ternary arithmetic operations in CNFET technology. <i>Microelectronics Journal</i> , 2019 , 90, 267-277	1.8	4
91	An Adaptive, Low Restrictive and Fault Resilient Routing Algorithm for 3D Network-on-Chip 2015 ,		4
90	HTF-MPR: A heterogeneous TensorFlow mapper targeting performance using genetic algorithms and gradient boosting regressors 2018 ,		4
89	Ultra-low-power carbon nanotube FET-based quaternary logic gates. <i>International Journal of Electronics</i> , 2016 , 1-14	1.2	4
88	DICA: destination intensity and congestion-aware output selection strategy for network-on-chip systems. <i>IET Computers and Digital Techniques</i> , 2019 , 13, 335-347	0.9	4
87	A new approach for designing compressors with a new hardware-friendly mathematical method for multi-input XOR gates. <i>IET Circuits, Devices and Systems</i> , 2017 , 11, 46-57	1.1	4
86	Capacitive Coupling Mitigation for TSV-based 3D ICs 2015 ,		4
85	SecSens - Security Architecture for Wireless Sensor Networks 2009 ,		4
84	A grid embedding into the star graph for image analysis solutions. <i>Information Processing Letters</i> , 1996 , 60, 255-260	0.8	4
83	Finding circular shapes in an image on a pyramid architecture. <i>Pattern Recognition Letters</i> , 1992 , 13, 843-848	1.7	4
82	An Efficient Analog-to-Digital Converter Based on Carbon Nanotube FETs. <i>Journal of Low Power Electronics</i> , 2016 , 12, 150-157	1.2	4
81	Towards Approximate Computing with Quantum-Dot Cellular Automata. <i>Journal of Low Power Electronics</i> , 2017 , 13, 29-35	1.2	4

80	A novel digital fuzzy system for image edge detection based on wrap-gate carbon nanotube transistors. <i>Computers and Electrical Engineering</i> , 2020 , 87, 106811	4.3	4
79	Computational storage: an efficient and scalable platform for big data and HPC applications. <i>Journal of Big Data</i> , 2019 , 6,	11.7	4
78	AROMa: Aging-Aware Deadlock-Free Adaptive Routing Algorithm and Online Monitoring in 3D NoCs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2018 , 29, 772-788	3.7	4
77	High-performance ternary operators for scrambling. <i>The Integration VLSI Journal</i> , 2017 , 59, 1-9	1.4	3
76	Effect of magnesium oxide adhesion layer on resonance behavior of plasmonic nanostructures. <i>Applied Physics Letters</i> , 2020 , 116, 241601	3.4	3
75	Enhancing Reliability of Emerging Memory Technology for Machine Learning Accelerators. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2020 , 1-1	4.1	3
74	Reducing bypass-based network-on-chip latency using priority mechanism. <i>IET Computers and Digital Techniques</i> , 2018 , 12, 1-8	0.9	3
73	Deadlock Verification of Cache Coherence Protocols and Communication Fabrics. <i>IEEE Transactions on Computers</i> , 2016 , 1-1	2.5	3
72	Discontinuous unilateral involvement of 12 part core biopsies by adenocarcinoma predicts bilateral involvement of subsequent radical prostatectomy. <i>Pathology International</i> , 2016 , 66, 438-43	1.8	3
71	CoBRA: Low cost compensation of TSV failures in 3D-NoC 2016 ,		3
70	Voltage island based heterogeneous NoC design through constraint programming. <i>Computers and Electrical Engineering</i> , 2014 , 40, 307-316	4.3	3
69	On the design of hybrid routing mechanism for mesh-based network-on-chip. <i>The Integration VLSI Journal</i> , 2015 , 50, 183-192	1.4	3
68	A GALS Router for Asynchronous Network-on-Chip 2014 ,		3
67	LATEX: New Selection Policy for Adaptive Routing in Application-Specific NoC 2012 ,		3
66	A formally verified deadlock-free routing function in a fault-tolerant NoC architecture 2012 ,		3
65	CPNoC: On Using Constraint Programming in Design of Network-on-Chip Architecture 2013 ,		3
64	Message Driven Programming with S-Net: Methodology and Performance 2010 ,		3
63	Ray tracing on a networked processor array. <i>International Journal of Electronics</i> , 2010 , 97, 1193-1205	1.2	3

62	Load Balancing for Data-Parallel Applications on Network-on-Chip Enabled Multi-processor Platform 2011 ,		3
61	Design of a router for network-on-chip. <i>International Journal of High Performance Systems Architecture</i> , 2007 , 1, 98	0.9	3
60	IMPACCT: Methodology and Tools for Power-Aware Embedded Systems. <i>Design Automation for Embedded Systems</i> , 2002 , 7, 205-232	0.6	3
59	Algorithm optimizations and mapping scheme for interactive ray tracing on a reconfigurable architecture. <i>Computers and Graphics</i> , 2003 , 27, 701-713	1.8	3
58	Architectural design and analysis of a VLIW processor. <i>Computers and Electrical Engineering</i> , 1995 , 21, 119-142	4.3	3
57	Performance of symbolic applications on a parallel architecture. <i>International Journal of Parallel Programming</i> , 1987 , 16, 183-214	1.5	3
56	Fault-Tolerant Optimization for Application-Specific Network-on-Chip Architecture. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 363-381	0.2	3
55	Predicting hypotension in the ICU using noninvasive physiological signals. <i>Computers in Biology and Medicine</i> , 2021 , 129, 104120	7	3
54	Online monitoring and adaptive routing for aging mitigation in NoCs 2017 ,		2
53	A new approach to the Population-Based Incremental Learning algorithm using virtual regions for task mapping on NoCs. <i>Journal of Systems Architecture</i> , 2019 , 97, 443-454	5.5	2
52	Advances in multicore systems architectures. <i>Journal of Supercomputing</i> , 2015 , 71, 2783-2786	2.5	2
51	IRHT: An SDC detection and recovery architecture based on value locality of instruction binary codes. <i>Microprocessors and Microsystems</i> , 2020 , 77, 103159	2.4	2
50	CLBM: Controlled load-balancing mechanism for congestion management in silicon interposer NoC architecture. <i>Journal of Systems Architecture</i> , 2019 , 98, 102-113	5.5	2
49	Efficient multicast schemes for 3-D Networks-on-Chip. <i>Journal of Systems Architecture</i> , 2013 , 59, 693-708	5.5	2
48	Accurate System-level TSV-to-TSV Capacitive Coupling Fault Model for 3D-NoC 2015 ,		2
47	Contention-aware selection strategy for application-specific network-on-chip. <i>IET Computers and Digital Techniques</i> , 2013 , 7, 105-114	0.9	2
46	A Spectral-based partitioning algorithm for parallel LDPC decoding on a multiprocessor platform 2009 ,		2
45	PARALLEL FFT ALGORITHMS ON NETWORK-ON-CHIPS. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 255-269	0.9	2

44	Parallel processing for block ciphers on a fault tolerant networked processor array. <i>International Journal of High Performance Systems Architecture</i> , 2010 , 2, 156	0.9	2
43	LocSens - An Indoor Location Tracking System using Wireless Sensors 2008 ,		2
42	Application of a Heterogeneous Reconfigurable Architecture to OFDM Wireless Systems 2007 ,		2
41	A performance comparison of several superscalar processor models with a VLIW processor. <i>Microprocessors and Microsystems</i> , 1994 , 18, 131-139	2.4	2
40	Partition Pruning: Parallelization-Aware Pruning for Dense Neural Networks 2020 ,		2
39	Fully Reliable Dynamic Routing Logic for a Fault-Tolerant NoC Architecture. <i>Journal of Integrated Circuits and Systems</i> , 2013 , 8, 43-53	1	2
38	Array of Symmetric Nanohole Dimers for STT-RAM Ultrathin Layer Sensing 2019 ,		2
37	Data scheduling and placement in deep learning accelerator. <i>Cluster Computing</i> , 2019 ,	2.1	2
36	Application partitioning and mapping for bypass channel based NoC. <i>Computers and Electrical Engineering</i> , 2018 , 71, 676-691	4.3	2
35	A stream-sensitive distributed approach for configuring cascaded classifier topologies in real-time large-scale stream mining systems. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
34	A Radiation Hard Sense Circuit for Spin Transfer Torque Random Access Memory 2019 ,		1
33	Using constraint programming for the design of network-on-chip architectures. <i>Computing (Vienna/New York)</i> , 2015 , 97, 579-592	2.2	1
32	Supervised Machine-Learning Algorithms in Real-time Prediction of Hypotensive Events. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 5468-5471	0.9	1
31	A High Performance, Multi-Bit Output Logic-in-Memory Adder. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2020 , 1-1	4.1	1
30	Ternary cyclic redundancy check by a new hardware-friendly ternary operator. <i>Microelectronics Journal</i> , 2016 , 54, 126-137	1.8	1
29	2019 ,		1
28	Parallel low-density parity check decoding on a network-on-chip-based multiprocessor platform. <i>IET Computers and Digital Techniques</i> , 2012 , 6, 86	0.9	1
27			

26	On heterogeneous network-on-chip design based on constraint programming 2013 ,		1
25	A scheduling approach for distributed resource architectures with scarce communication resources. <i>International Journal of High Performance Systems Architecture</i> , 2011 , 3, 12	0.9	1
24	Scheduling Techniques for Multi-Core Architectures 2009 ,		1
23	PERFORMANCE IMPACT OF TASK-TO-TASK COMMUNICATION PROTOCOL IN NETWORK-ON-CHIP. <i>Journal of Circuits, Systems and Computers</i> , 2009 , 18, 283-294	0.9	1
22	An ASIC design and formal analysis of a novel pipelined and parallel sorting accelerator. <i>The Integration VLSI Journal</i> , 2008 , 41, 65-75	1.4	1
21	A Study of Implementation of IEEE 802.11 a Physical Layer on a Heterogeneous Reconfigurable Platform. <i>International Conference on Advanced Communication Technology</i> , 2007 ,		1
20	Performance analysis and design methodology for a scalable superscalar architecture. <i>ACM SIGMICRO Newsletter</i> , 1992 , 23, 246-255		1
19	Array of symmetric nanohole dimers with high sensitivity for detection of changes in an STT-RAM ultrathin dielectric layer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 3090	1.7	1
18	A Reconfigurable Processor for Forward Error Correction 2007 , 1-13		1
17	Plasmonic detection of possible defects in multilayer nanohole array consisting of essential materials in simplified STT-RAM cell 2017 ,		1
16	A Coarse-Grain Dynamically Reconfigurable System and Compilation Framework 2007 , 181-215		1
15	. <i>IEEE Access</i> , 2020 , 8, 33101-33112	3.5	0
14	Divisible load scheduling of image processing applications on the heterogeneous star and tree networks using a new genetic algorithm. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e5498	1.4	0
13	Energy efficient hybrid full adder design for digital signal processing in nanoelectronics. <i>Analog Integrated Circuits and Signal Processing</i> , 2021 , 109, 135-151	1.2	0
12	On the design of fully symmetrical bridge-style circuits. <i>IETE Journal of Research</i> , 2016 , 62, 394-401	0.9	
11	Fiber dispersion effects in injection-locked optical OFDM systems. <i>Optical and Quantum Electronics</i> , 2015 , 47, 3091-3100	2.4	
10	A Compositional Approach for Verifying Protocols Running on On-Chip Networks. <i>IEEE Transactions on Computers</i> , 2018 , 67, 905-919	2.5	
9	A software pipelining algorithm of streaming applications with low buffer requirements. <i>Scientia Iranica</i> , 2012 , 19, 627-634	1.5	

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| 8 | A framework for low energy data management in reconfigurable multi-context architectures. <i>Journal of Systems Architecture</i> , 2009 , 55, 127-139 | 5.5 |
| 7 | High-throughput differentiated service provision router architecture for wireless network-on-chip. <i>International Journal of High Performance Systems Architecture</i> , 2012 , 4, 38 | 0.9 |
| 6 | Faster column operations in star networks. <i>Telecommunication Systems</i> , 1998 , 10, 33-44 | 2.3 |
| 5 | A scalable register file architecture for superscalar processors. <i>Microprocessors and Microsystems</i> , 1998 , 22, 49-60 | 2.4 |
| 4 | Scheduling methodology for conditional execution of kernels onto multicontext reconfigurable architectures. <i>IET Computers and Digital Techniques</i> , 2008 , 2, 199 | 0.9 |
| 3 | Some topological properties of star connected cycles. <i>Information Processing Letters</i> , 1996 , 58, 81-85 | 0.8 |
| 2 | Image processing applications in C++ on a hypercube multicomputer. <i>Computers and Electrical Engineering</i> , 1993 , 19, 351-364 | 4.3 |
| 1 | A storage-efficient ensemble classification using filter sharing on binarized convolutional neural networks.. <i>PeerJ Computer Science</i> , 2022 , 8, e924 | 2.7 |