

Xiaohang Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3479221/publications.pdf>

Version: 2024-02-01

45
papers

366
citations

933264

10
h-index

996849

15
g-index

45
all docs

45
docs citations

45
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	On self-tuning networks-on-chip for dynamic network-flow dominance adaptation. Transactions on Embedded Computing Systems, 2014, 13, 1-21.	2.1	27
2	A Compact Planar Dual-Band Multiple-Input and Multiple-Output Antenna with High Isolation for 5G and 4G Applications. Micromachines, 2021, 12, 544.	1.4	25
3	Effectiveness of HT-assisted sinkhole and blackhole denial of service attacks targeting mesh networks-on-chip. Journal of Systems Architecture, 2018, 89, 84-94.	2.5	23
4	Adaptive Routing Algorithms for Lifetime Reliability Optimization in Network-on-Chip. IEEE Transactions on Computers, 2016, 65, 2896-2902.	2.4	20
5	ABDTR: Approximation-Based Dynamic Traffic Regulation for Networks-on-Chip Systems. , 2017, , .		19
6	Improving the efficiency of thermal covert channels in multi-/many-core systems. , 2018, , .		18
7	On Runtime Communication and Thermal-Aware Application Mapping and Defragmentation in 3D NoC Systems. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2775-2789.	4.0	18
8	EdgeCoolingMode: An Agent Based Thermal Management Mechanism for DVFS Enabled Heterogeneous MPSoCs. , 2019, , .		16
9	Bubble Budgeting: Throughput Optimization for Dynamic Workloads by Exploiting Dark Cores in Many Core Systems. IEEE Transactions on Computers, 2018, 67, 178-192.	2.4	14
10	Combating Enhanced Thermal Covert Channel in Multi-/Many-Core Systems With Channel-Aware Jamming. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3276-3287.	1.9	14
11	Defragmentation for Efficient Runtime Resource Management in NoC-Based Many-Core Systems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 3359-3372.	2.1	13
12	On Fine-Grained Runtime Power Budgeting for Networks-on-Chip Systems. IEEE Transactions on Computers, 2016, 65, 2780-2793.	2.4	11
13	On Countermeasures Against the Thermal Covert Channel Attacks Targeting Many-core Systems. , 2020, , .		11
14	ACDC: An Accuracy- and Congestion-aware Dynamic Traffic Control Method for Networks-on-Chip. , 2019, , .		10
15	Detection of and Countermeasure Against Thermal Covert Channel in Many-Core Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 252-265.	1.9	10
16	An Approximate Bufferless Network-on-Chip. IEEE Access, 2019, 7, 141516-141532.	2.6	9
17	User Interaction Aware Reinforcement Learning for Power and Thermal Efficiency of CPU-GPU Mobile MPSoCs. , 2020, , .		9
18	On hardware-trojan-assisted power budgeting system attack targeting many core systems. Journal of Systems Architecture, 2020, 109, 101757.	2.5	8

#	ARTICLE	IF	CITATIONS
19	A pareto-optimal runtime power budgeting scheme for many-core systems. <i>Microprocessors and Microsystems</i> , 2016, 46, 136-148.	1.8	7
20	Achieving Flexible Global Reconfiguration in NoCs Using Reconfigurable Rings. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020, 31, 611-622.	4.0	7
21	On runtime adaptive tile defragmentation for resource management in many-core systems. <i>Microprocessors and Microsystems</i> , 2016, 46, 161-174.	1.8	6
22	HRC: A 3D NoC Architecture with Genuine Support for Runtime Thermal-Aware Task Management. <i>IEEE Transactions on Computers</i> , 2017, 66, 1676-1688.	2.4	6
23	On Runtime Communication- and Thermal-aware Application Mapping in 3D NoC. , 2017, , .		5
24	Performance Optimization of Many-Core Systems by Exploiting Task Migration and Dark Core Allocation. <i>IEEE Transactions on Computers</i> , 2022, 71, 92-106.	2.4	5
25	Modeling and Analysis of Thermal Covert Channel Attacks in Many-core Systems. <i>IEEE Transactions on Computers</i> , 2023, 72, 494-500.	2.4	5
26	Upward Packet Popup for Deadlock Freedom in Modular Chiplet-Based Systems. , 2022, , .		5
27	On Performance Optimization and Quality Control for Approximate-communication-enabled Networks-on-Chip. <i>IEEE Transactions on Computers</i> , 2020, , 1-1.	2.4	4
28	Dynamic Allocation/Reallocation of Dark Cores in Many-Core Systems for Improved System Performance. <i>IEEE Access</i> , 2020, 8, 165693-165707.	2.6	4
29	A Deflection-Based Deadlock Recovery Framework to Achieve High Throughput for Faulty NoCs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2021, 40, 2170-2183.	1.9	4
30	Emergent design challenges for embedded systems and paths forward. , 2021, , .		4
31	Defending against Thermal Covert Channel Attacks by Task Migration in Many-core System. , 2021, , .		4
32	Trends and Challenges in Ensuring Security for Low-Power and High-Performance Embedded SoCs. , 2021, , .		4
33	Selective Noise Based Power-Efficient and Effective Countermeasure against Thermal Covert Channel Attacks in Multi-Core Systems. <i>Journal of Low Power Electronics and Applications</i> , 2022, 12, 25.	1.3	4
34	Aggressive Fine-Grained Power Gating of NoC Buffers. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 3177-3189.	1.9	3
35	Intra- and Inter-Server Smart Task Scheduling for Profit and Energy Optimization of HPC Data Centers. <i>Journal of Low Power Electronics and Applications</i> , 2020, 10, 32.	1.3	3
36	An enhanced planned obsolescence attack by aging networks-on-chip. <i>Journal of Systems Architecture</i> , 2021, 117, 102093.	2.5	2

#	ARTICLE	IF	CITATIONS
37	On a Consistency Testing Model and Strategy for Revealing RISC Processor's Dark Instructions and Vulnerabilities. IEEE Transactions on Computers, 2022, 71, 1586-1597.	2.4	2
38	Evolution of Publications, Subjects, and Co-Authorships in Network-on-Chip Research From a Complex Network Perspective. IEEE Access, 2021, 9, 149399-149422.	2.6	2
39	On a New Hardware Trojan Attack on Power Budgeting of Many Core Systems. , 2018, , .		1
40	Effect of Hardware Trojan Attacks on the Performance of On-Chip Multicast Routing Algorithms. , 2019, , .		1
41	Efficient On-Chip Multicast Routing based on Dynamic Partition Merging. , 2020, , .		1
42	Improving the Performance of a NoC-based CNN Accelerator with Gather Support. , 2020, , .		1
43	Detection of Thermal Covert Channel Attacks Based on Classification of Components of the Thermal Signal Features. IEEE Transactions on Computers, 2023, 72, 971-983.	2.4	1
44	Runtime task mapping for lifetime budgeting in many-core systems. , 2017, , .		0
45	On Pareto-frontier Approximate Computing for Many-core Systems. , 2021, , .		0