

# Shih-Hao Hung

## List of Publications by Year in descending order

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66  
papers

563  
citations

1163117

8  
h-index

940533

16  
g-index

66  
all docs

66  
docs citations

66  
times ranked

544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating Simulated Quantum Annealing with GPU and Tensor Cores. Lecture Notes in Computer Science, 2022, , 174-191.	1.3	2
2	A new open-source GPU-based microscopic Monte Carlo simulation tool for the calculations of DNA damages caused by ionizing radiation " Part II: sensitivity and uncertainty analysis. Medical Physics, 2020, 47, 1971-1982.	3.0	14
3	A new open-source GPU-based microscopic Monte Carlo simulation tool for the calculations of DNA damages caused by ionizing radiation "Part I: Core algorithm and validation. Medical Physics, 2020, 47, 1958-1970.	3.0	19
4	Rapid Hybrid Simulation Methods for Exploring the Design Space of Signal Processors with Dynamic and Scalable Timing Models. Journal of Signal Processing Systems, 2019, 91, 247-259.	2.1	0
5	Phase-Based Profiling and Performance Prediction with Timing Approximate Simulators. , 2018, , .		0
6	Acceleration of Monte-Carlo simulation on high performance computing platforms. , 2018, , .		2
7	Program Analysis with a Loop-Function-based Tracing Tool on Virtual Platforms. , 2017, , .		1
8	A Cloud-Assisted Malware Detection Framework for Mobile Devices. , 2016, , .		5
9	Fast Race Detection and Profiling Framework for Heterogeneous System. , 2016, , .		1
10	Flattened Data in Convolutional Neural Networks. , 2016, , .		10
11	HSAemu 2.0. , 2016, , .		0
12	A Platform-Oblivious Approach for Heterogeneous Computing. , 2016, , .		6
13	Availability Is Not Enough: Minimizing Joint Response Time in Peer-Assisted Cloud Storage Systems. IEEE Systems Journal, 2016, 10, 1424-1434.	4.6	8
14	A code offloading scheme for big-data processing in android applications. Software - Practice and Experience, 2015, 45, 1087-1101.	3.6	10
15	Migratom.js. , 2015, , .		11
16	Real-time and intelligent private data protection for the Android platform. Pervasive and Mobile Computing, 2015, 24, 231-242.	3.3	8
17	DroidDolphin. , 2014, , .		112
18	The acceleration of pipeline workloads under the FPGA area and bandwidth constraints. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
19	HSAemu. , 2014, , .		6
20	MobileFBP: Designing portable reconfigurable applications for heterogeneous systems. Journal of Systems Architecture, 2014, 60, 40-51.	4.3	4
21	Message-Passing Programming for Embedded Multicore Signal-Processing Platforms. Journal of Signal Processing Systems, 2014, 75, 123-139.	2.1	4
22	A framework of cloud-based virtual phones for secure intelligent information management. International Journal of Information Management, 2014, 34, 329-335.	17.5	13
23	Performance and power profiling for emulated Android systems. ACM Transactions on Design Automation of Electronic Systems, 2014, 19, 1-25.	2.6	18
24	Creating Pervasive, Dynamic, Scalable Android Applications. , 2013, , .		3
25	Performance and Power Estimation for Mobile-Cloud Applications on Virtualized Platforms. , 2013, , .		1
26	Fairness scheduler for virtual machines on heterogonous multi-core platforms. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2013, 13, 28-40.	0.9	8
27	V2X: An automated tool for building SystemC-based simulation environments in designing multicore systems-on-chips. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'uan, 2013, 36, 48-62.	1.1	0
28	Hardware acceleration for proton beam Monte Carlo simulation. , 2013, , .		2
29	Migrating Android Applications to the Cloud. , 2013, , 307-322.		0
30	An adaptive file-system-oriented FTL mechanism for flash-memory storage systems. Transactions on Embedded Computing Systems, 2012, 11, 1-19.	2.9	23
31	MCEmu. ACM Transactions on Design Automation of Electronic Systems, 2012, 17, 1-25.	2.6	4
32	ADSET: A framework of rapid design space exploration for Android-based systems. , 2012, , .		1
33	On the Portability and Performance of Message-Passing Programs on Embedded Multicore Platforms. , 2012, , .		0
34	System-wide profiling and optimization with virtual machines. , 2012, , .		9
35	A profile-driven dynamic application offloading scheme for Android systems. , 2012, , .		2
36	A real-time, energy-efficient system software suite for heterogeneous multicore platforms. , 2012, , .		5

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37	Executing mobile applications on the cloud: Framework and issues. Computers and Mathematics With Applications, 2012, 63, 573-587.	2.7	96
38	A VM-aware fairness scheduler on heterogenous multi-core platforms. , 2012, , .		1
39	Migrating Android Applications to the Cloud. , 2012, , 993-1008.		0
40	CSR: A Cloud-Assisted Speech Recognition Service for Personal Mobile Device. , 2011, , .		23
41	An Online Migration Environment for Executing Mobile Applications on the Cloud. , 2011, , .		11
42	User behavior augmented software testing for user-centered GUI. , 2011, , .		4
43	Building a scalable and portable message-passing library for embedded multicore systems. , 2011, , .		1
44	Data Transmission with the Battery Utilization Maximization. Journal of Computer Science and Technology, 2011, 26, 392-404.	1.5	2
45	A portable, efficient inter-core communication scheme for embedded multicore platforms. Journal of Systems Architecture, 2011, 57, 193-205.	4.3	9
46	Pipeline schedule synthesis for real-time streaming tasks with inter/intra-instance precedence constraints. , 2011, , .		3
47	Migrating Android Applications to the Cloud. International Journal of Grid and High Performance Computing, 2011, 3, 14-28.	0.9	6
48	Protection against Buffer Overflow Attacks via Dynamic Binary Translation. , 2011, , 305-324.		2
49	Task Scheduling for Context Minimization in Dynamically Reconfigurable Platforms. Journal of Signal Processing Systems, 2010, 59, 3-12.	2.1	1
50	GOP-level parallelization of the H.264 decoder without a start-code scanner. , 2010, , .		6
51	A Virtual Timing Device for Program Performance Analysis. , 2010, , .		11
52	Designing and Implementing a Portable, Efficient Inter-core Communication Scheme for Embedded Multicore Platforms. , 2010, , .		11
53	Integer Number Crunching on the Cell Processor. , 2010, , .		1
54	Energy-efficient real-time scheduling of multimedia tasks on multi-core processors. , 2010, , .		20

#	ARTICLE	IF	CITATIONS
55	Trace-based performance analysis framework for heterogeneous multicore systems. , 2010, , .		6
56	V2X: An Automated Tool for Building SystemC-Based Simulation Environments in Designing Multicore Systems-on-Chips. , 2010, , .		2
57	Zero-Buffer Inter-core Process Communication Protocol for Heterogeneous Multi-core Platforms. , 2009, , .		10
58	An Automatic Compiler Optimizations Selection Framework for Embedded Applications. , 2009, , .		5
59	New Tracing and Performance Analysis Techniques for Embedded Applications. , 2008, , .		5
60	Optimizing the Embedded Caching and Prefetching Software on a Network-Attached Storage System. , 2008, , .		3
61	Task Scheduling for Context Minimization in Dynamically Reconfigurable Platforms. , 2007, , 55-63.		0
62	Scalable Lossless High Definition Image Coding on Multicore Platforms. , 2007, , 742-753.		0
63	Cache Leakage Management for Multi-programming Workloads. Lecture Notes in Computer Science, 2005, , 736-749.	1.3	0
64	System support for dynamic optimization of application performance. , 0, , .		0
65	A Low Complexity Rate-Distortion Source Modeling Framework. , 0, , .		4
66	Multiresolution time domain modeling for large scale wireless communication problems. , 0, , .		7