

# Pi-Cheng Hsiu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1454090/publications.pdf>

Version: 2024-02-01

82  
papers

1,035  
citations

759055

12  
h-index

752573

20  
g-index

82  
all docs

82  
docs citations

82  
times ranked

768  
citing authors

#	ARTICLE	IF	CITATIONS
1	SSR-Net: A Compact Soft Stagewise Regression Network for Age Estimation. , 2018, , .		91
2	Age-based PCM wear leveling with nearly zero search cost. , 2012, , .		78
3	Distributed Throughput Optimization for ZigBee Cluster-Tree Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 513-520.	4.0	59
4	Energy-Efficient Video Multicast in 4G Wireless Systems. IEEE Transactions on Mobile Computing, 2012, 11, 1508-1522.	3.9	43
5	A Mobility-Aware Node Deployment and Tree Construction Framework for ZigBee Wireless Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 2763-2779.	3.9	43
6	Dynamic Backlight Scaling Optimization: A Cloud-Based Energy-Saving Service for Mobile Streaming Applications. IEEE Transactions on Computers, 2014, 63, 335-348.	2.4	41
7	Mobility-aware charger deployment for wireless rechargeable sensor networks. , 2012, , .		38
8	Catch Your Attention. , 2014, , .		30
9	Task synchronization and allocation for many-core real-time systems. , 2011, , .		25
10	User-Centric Energy-Efficient Scheduling on Multi-Core Mobile Devices. , 2014, , .		24
11	HomeRun. , 2018, , .		24
12	Search-Oriented Deployment Strategies for Wireless Sensor Networks. , 2007, , .		23
13	Everything Leaves Footprints: Hardware Accelerated Intermittent Deep Inference. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3479-3491.	1.9	23
14	Dynamic backlight scaling optimization for mobile streaming applications. , 2011, , .		22
15	Marching-Based Wear-Leveling for PCM-Based Storage Systems. ACM Transactions on Design Automation of Electronic Systems, 2015, 20, 1-22.	1.9	22
16	A resource-driven DVFS scheme for smart handheld devices. Transactions on Embedded Computing Systems, 2013, 13, 1-22.	2.1	21
17	Improving PCM Endurance with a Constant-Cost Wear Leveling Design. ACM Transactions on Design Automation of Electronic Systems, 2017, 22, 1-27.	1.9	21
18	Compliance Enforcement of Temporal and Dosage Constraints. , 2006, , .		17

#	ARTICLE	IF	CITATIONS
19	A Data Parasitizing Scheme for Effective Health Monitoring in Wireless Body Area Networks. IEEE Transactions on Mobile Computing, 2019, 18, 13-27.	3.9	17
20	CURA. Transactions on Embedded Computing Systems, 2016, 15, 1-25.	2.1	17
21	Autonomous I/O for Intermittent IoT Systems. , 2019, , .		16
22	A user-centric CPU-GPU governing framework for 3D games on mobile devices. , 2015, , .		15
23	Enabling Failure-resilient Intermittently-powered Systems Without Runtime Checkpointing. , 2019, , .		15
24	APAMAT: A Prescription Algebra for Medication Authoring Tool. , 2006, , .		14
25	User-Centric Scheduling and Governing on Mobile Devices with big.LITTLE Processors. Transactions on Embedded Computing Systems, 2016, 15, 1-22.	2.1	14
26	A Doppler Effect Based Framework for Wi-Fi Signal Tracking in Search and Rescue Operations. IEEE Transactions on Vehicular Technology, 2018, 67, 3924-3936.	3.9	14
27	A win-win camera: Quality-enhanced power-saving images on mobile OLED displays. , 2015, , .		13
28	Enabling Failure-Resilient Intermittent Systems Without Runtime Checkpointing. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4399-4412.	1.9	13
29	Mobility-Robust Tree Construction in ZigBee Wireless Networks. , 2011, , .		12
30	Multiversion Concurrency Control on Intermittent Systems. , 2019, , .		12
31	Minimum Interference Topology Construction for Robust multi-hop cognitive radio networks. , 2013, , .		11
32	iLauncher. , 2013, , .		11
33	Value-Based Task Scheduling for Nonvolatile Processor-Based Embedded Devices. , 2016, , .		11
34	Accumulative Display Updating for Intermittent Systems. Transactions on Embedded Computing Systems, 2019, 18, 1-22.	2.1	11
35	Smart Pantries for Homes. , 2006, , .		9
36	A Maximum-Residual Multicast Protocol for Large-Scale Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1441-1453.	3.9	9

#	ARTICLE	IF	CITATIONS
37	Multilayer Bus Optimization for Real-Time Embedded Systems. IEEE Transactions on Computers, 2012, 61, 1638-1650.	2.4	9
38	ShiftMask: Dynamic OLED power shifting based on visual acuity for interactive mobile applications. , 2017, , .		8
39	Heterogeneity-aware Multicore Synchronization for Intermittent Systems. Transactions on Embedded Computing Systems, 2021, 20, 1-22.	2.1	8
40	An Integrated Deployment Tool for ZigBee-Based Wireless Sensor Networks. , 2008, , .		7
41	Catch your attention: Quality-retaining power saving on mobile OLED displays. , 2014, , .		7
42	A semantics-aware design for mounting remote sensors on mobile systems. , 2016, , .		7
43	Many-Core Real-Time Task Scheduling with Scratchpad Memory. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2953-2966.	4.0	7
44	Approximation Algorithms for a Link Scheduling Problem in Wireless Relay Networks with QoS Guarantee. IEEE Transactions on Mobile Computing, 2010, 9, 1732-1748.	3.9	6
45	A Hybrid Storage Access Framework for High-Performance Virtual Machines. Transactions on Embedded Computing Systems, 2014, 13, 1-24.	2.1	6
46	Duet. , 2018, , .		6
47	Application behavior analysis in resource consumption for mobile devices. , 2014, , .		5
48	A storage-free data parasitizing scheme for wireless body area networks. , 2014, , .		5
49	Extend Your Journey: Considering Signal Strength and Fluctuation in Location-Based Applications. IEEE/ACM Transactions on Networking, 2015, 23, 451-464.	2.6	5
50	A Reconfigurable Virtual Storage Device. , 2009, , .		4
51	A caching-oriented management design for the performance enhancement of solid-state drives. ACM Transactions on Storage, 2012, 8, 1-21.	1.4	4
52	Extend your journey: Introducing signal strength into location-based applications. , 2013, , .		4
53	Improving Serviceability for Virtual Clusters in Bandwidth-Constrained Datacenters. , 2015, , .		4
54	Real-Time Computing and the Evolution of Embedded System Designs. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
55	Duet: An OLED & GPU Co-management Scheme for Dynamic Resolution Adaptation. , 2018, , .		4
56	Oasis: A Mobile Cyber-Physical System for Accessible Location Exploration. Proceedings of the IEEE, 2018, 106, 1744-1759.	16.4	4
57	More Is Less: Model Augmentation for Intermittent Deep Inference. Transactions on Embedded Computing Systems, 2022, 21, 1-26.	2.1	4
58	Power-Aware Scalable Video Multicast in 4G Wireless Systems. , 2010, , .		3
59	Energy-efficient downlink resource allocation for mobile devices in wireless systems. , 2013, , .		3
60	A Cloud-Based Offloading Service for Computation-Intensive Mobile Applications. , 2015, , .		3
61	Framework designs to enhance reliable and timely services of disaster management systems. , 2016, , .		3
62	Enhancing Flash Memory Reliability by Jointly Considering Write-back Pattern and Block Endurance. ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-24.	1.9	3
63	LSIM. , 2019, , .		3
64	Scenario based threat detection and attack analysis. , 2005, , .		2
65	Multi-layer Bus Optimization for Real-Time Task Scheduling with Chain-Based Precedence Constraints. , 2009, , .		2
66	Energy-Adaptive Downlink Resource Allocation in Wireless Cellular Systems. IEEE Transactions on Mobile Computing, 2015, 14, 1833-1846.	3.9	2
67	Differentiated handling of physical scenes and virtual objects for mobile augmented reality. , 2018, , .		2
68	A User-Centric CPU-GPU Governing Framework for 3-D Mobile Games. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 961-974.	1.9	2
69	Quality-Enhanced OLED Power Savings on Mobile Devices. ACM Transactions on Design Automation of Electronic Systems, 2019, 24, 1-25.	1.9	2
70	Deadline Flow Scheduling in Datacenters with Time-Varying Bandwidth Allocations. IEEE Transactions on Services Computing, 2020, 13, 437-450.	3.2	2
71	User-centric energy-efficient scheduling on multi-core mobile devices. , 2014, , .		1
72	Energy stealing - an exploration into unperceived activities on mobile systems. , 2015, , .		1

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73	Dynamic Antenna Management for Uplink Energy Efficiency on 802.11n Mobile Devices. IEEE Transactions on Computers, 2015, 64, 2767-2780.	2.4	1
74	Similarity-based wakeup management for mobile systems in connected standby. , 2016, , .		1
75	Impact of memory frequency scaling on user-centric smartphone workloads. , 2018, , .		1
76	A pattern-aware write strategy to enhance the reliability of flash-memory storage systems. , 2017, , .		1
77	Maximum-residual multicasting and aggregating in wireless ad hoc networks. Wireless Networks, 2010, 16, 701-711.	2.0	0
78	A hybrid storage access framework for virtual machines. , 2013, , .		0
79	Deadline-aware load balancing for MapReduce. , 2014, , .		0
80	Deadline-aware envy-free admission control in shared datacenter networks. , 2015, , .		0
81	The deployment of shared data objects among handheld and wearable devices. , 2015, , .		0
82	Spatiotemporal Super-Resolution with Cross-Task Consistency and Its Semi-supervised Extension. , 2020, , .		0