

Hojung Cha

List of Publications by Year in descending order

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89
papers

2,076
citations

471371

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345118

36
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90
docs citations

90
times ranked

2102
citing authors

#	ARTICLE	IF	CITATIONS
1	State-of-Charge Estimation of Supercapacitors in Transiently-Powered Sensor Nodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 225-237.	1.9	6
2	Revisiting the battery level indicator of mobile devices. Design Automation for Embedded Systems, 2021, 25, 65-85.	0.7	0
3	Optrone: Maximizing Performance and Energy Resources of Drone Batteries. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3931-3943.	1.9	15
4	Optimizing Discharge Efficiency of Reconfigurable Battery With Deep Reinforcement Learning. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3893-3905.	1.9	3
5	Hydrone: Reconfigurable Energy Storage for UAV Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3686-3697.	1.9	4
6	Improving Energy Efficiency of Android Devices by Preventing Redundant Frame Generation. IEEE Transactions on Mobile Computing, 2019, 18, 871-884.	3.9	8
7	Always-On Quick Charging for Mobile Devices. , 2019, , .		2
8	Provisioning of energy consumption information for mobile ads. Pervasive and Mobile Computing, 2019, 53, 49-61.	2.1	2
9	Click Sequence Prediction in Android Mobile Applications. IEEE Transactions on Human-Machine Systems, 2019, 49, 278-289.	2.5	7
10	Aggressive Voltage and Temperature Control for Power Saving in Mobile Application Processors. IEEE Transactions on Mobile Computing, 2018, 17, 1233-1246.	3.9	7
11	Accurate prediction of smartphones' skin temperature by considering exothermic components. , 2018, , .		8
12	Fully automated OLED display power modeling for mobile devices. Pervasive and Mobile Computing, 2018, 50, 41-55.	2.1	10
13	Scalable and consistent radio map management using participatory sensing. Pervasive and Mobile Computing, 2017, 40, 397-413.	2.1	4
14	User interface-level QoE analysis for Android application tuning. Pervasive and Mobile Computing, 2017, 40, 382-396.	2.1	6
15	Energy-efficient WiFi scanning for localization. Pervasive and Mobile Computing, 2017, 37, 124-138.	2.1	11
16	Exploiting Multi-Cell Battery for Mobile Devices. , 2017, , .		8
17	T-DVS. , 2016, , .		5
18	Collaborative classification for daily activity recognition with a smartwatch. , 2016, , .		5

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19	Prediction-based personalized offloading of cellular traffic through WiFi networks. , 2016, , .		5
20	Content-Centric Energy Management of Mobile Displays. IEEE Transactions on Mobile Computing, 2016, 15, 1925-1938.	3.9	16
21	Transient data delivery using fine-grained mobility data in spontaneous smartphone networks. Wireless Communications and Mobile Computing, 2015, 15, 910-923.	0.8	1
22	Crowdsensing-based Wi-Fi radio map management using a lightweight site survey. Computer Communications, 2015, 60, 86-96.	3.1	28
23	MRI: Model-Based Radio Interpolation for Indoor War-Walking. IEEE Transactions on Mobile Computing, 2015, 14, 1231-1244.	3.9	17
24	User context-based data delivery in opportunistic smartphone networks. Pervasive and Mobile Computing, 2015, 17, 122-138.	2.1	11
25	Content-centric display energy management for mobile devices. , 2014, , .		0
26	SmartDC: Mobility Prediction-Based Adaptive Duty Cycling for Everyday Location Monitoring. IEEE Transactions on Mobile Computing, 2014, 13, 512-525.	3.9	50
27	Personalized Energy Auditor: Estimating personal electricity usage. , 2014, , .		5
28	Adaptive Duty Cycling for Place-Centric Mobility Monitoring using Zero-Cost Information in Smartphone. IEEE Transactions on Mobile Computing, 2014, 13, 1694-1706.	3.9	10
29	Predicting smartphone battery usage using cell tower ID monitoring. Pervasive and Mobile Computing, 2014, 13, 99-110.	2.1	7
30	A context-rich and extensible framework for spontaneous smartphone networking. Computer Communications, 2014, 37, 25-39.	3.1	6
31	Smartphone-based Wi-Fi tracking system exploiting the RSS peak to overcome the RSS variance problem. Pervasive and Mobile Computing, 2013, 9, 406-420.	2.1	59
32	Automatic Standby Power Management Using Usage Profiling and Prediction. IEEE Transactions on Human-Machine Systems, 2013, 43, 535-546.	2.5	32
33	Content Sharing over Smartphone-Based Delay-Tolerant Networks. IEEE Transactions on Mobile Computing, 2013, 12, 581-595.	3.9	41
34	Occupancy Prediction Algorithms for Thermostat Control Systems Using Mobile Devices. IEEE Transactions on Smart Grid, 2013, 4, 1332-1340.	6.2	52
35	UserScope: A Fine-Grained Framework for Collecting Energy-Related Smartphone User Contexts. , 2013, , .		6
36	Runtime Power Estimation of Mobile AMOLED Displays. , 2013, , .		17

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37	Smartphone-based pedestrian tracking in indoor corridor environments. <i>Personal and Ubiquitous Computing</i> , 2013, 17, 359-370.	1.9	48
38	Data delivery scheme for intermittently connected mobile sensor networks. <i>Computer Communications</i> , 2013, 36, 504-519.	3.1	16
39	WakeScope: Runtime WakeLock anomaly management scheme for Android platform. , 2013, , .		8
40	Autonomous Construction of a Mountain Terrain Map Using Low-Cost Sensors and Group Information. , 2013, , .		0
41	Smartphone-Based Indoor Pedestrian Tracking Using Geo-Magnetic Observations. <i>Mobile Information Systems</i> , 2013, 9, 123-137.	0.4	11
42	PION: Human mobility-based service provisioning framework for smartphone users. , 2012, , .		1
43	Unsupervised Locating of WiFi Access Points Using Smartphones. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 1341-1353.	3.3	52
44	Energy-Aware Pipeline Monitoring System Using Piezoelectric Sensor. <i>IEEE Sensors Journal</i> , 2012, 12, 1695-1702.	2.4	15
45	Spectrum: Lightweight Hybrid Address Autoconfiguration Protocol Based on Virtual Coordinates for 6LoWPAN. <i>IEEE Transactions on Mobile Computing</i> , 2012, 11, 1749-1762.	3.9	13
46	Evaluating mobility models for temporal prediction with high-granularity mobility data. , 2012, , .		62
47	Smartphone-Based Collaborative and Autonomous Radio Fingerprinting. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 112-122.	3.3	111
48	Autonomous Management of Everyday Places for a Personalized Location Provider. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 518-531.	3.3	34
49	Unsupervised Construction of an Indoor Floor Plan Using a Smartphone. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 889-898.	3.3	117
50	Smartphone-based Wi-Fi pedestrian-tracking system tolerating the RSS variance problem. , 2012, , .		56
51	A pedestrian tracking system using group mobility information. , 2012, , .		4
52	Observing Thermal Characteristics of Energy-Aware Mobile Devices. , 2012, , .		0
53	A GPS Sensing Strategy for Accurate and Energy-Efficient Outdoor-to-Indoor Handover in Seamless Localization Systems. <i>Mobile Information Systems</i> , 2012, 8, 315-332.	0.4	12
54	LifeMap: A Smartphone-Based Context Provider for Location-Based Services. <i>IEEE Pervasive Computing</i> , 2011, 10, 58-67.	1.1	227

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55	Localizing WiFi Access Points Using Signal Strength. IEEE Communications Letters, 2011, 15, 187-189.	2.5	95
56	Inertial Sensor-Based Indoor Pedestrian Localization with Minimum 802.15.4a Configuration. IEEE Transactions on Industrial Informatics, 2011, 7, 455-466.	7.2	74
57	A lightweight stateful address autoconfiguration for 6LoWPAN. Wireless Networks, 2011, 17, 183-197.	2.0	29
58	Mobility prediction-based smartphone energy optimization for everyday location monitoring. , 2011, , .		108
59	Wi-Fi Fingerprint-Based Topological Map Building for Indoor User Tracking. , 2010, , .		29
60	A Processor Power Management Scheme for Handheld Systems Considering Off-Chip Contributions. IEEE Transactions on Industrial Informatics, 2010, 6, 255-264.	7.2	21
61	An energy-aware transmission mechanism for WiFi-based mobile devices handling upload TCP traffic. International Journal of Communication Systems, 2009, 22, 625-640.	1.6	9
62	IPv6 lightweight stateless address autoconfiguration for 6LoWPAN using color coordinators. , 2009, , .		9
63	A traffic control system for IEEE 802.11 networks based on available bandwidth estimation. Wireless Communications and Mobile Computing, 2008, 8, 407-419.	0.8	5
64	A time-dominated TCP congestion control over heterogeneous networks. International Journal of Communication Systems, 2008, 21, 1325-1345.	1.6	2
65	A Localization Technique for Mobile Sensor Networks Using Archived Anchor Information. , 2008, , .		15
66	Structural Health Monitoring system based on strain gauge enabled wireless sensor nodes. , 2008, , .		31
67	Automated sensor-specific power management for wireless sensor networks. , 2008, , .		7
68	Y-MAC: An Energy-Efficient Multi-channel MAC Protocol for Dense Wireless Sensor Networks. , 2008, , .		201
69	A Power Management mechanism for Handheld Systems having a Multimedia Accelerator. , 2008, , .		4
70	Sensible Doctor - A Mobile Diagnosis Tool for Wireless Sensor Networks. , 2008, , .		4
71	Event Region for Effective Distributed Acoustic Source Localization in Wireless Sensor Networks. , 2007, , .		9
72	Enabling Low Power Listening on IEEE 802.15.4-Based Sensor Nodes. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
73	The RETOS Operating System: Kernel, Tools and Applications. , 2007, , .		0
74	RETOS: Resilient, Expandable, and Threaded Operating System for Wireless Sensor Networks. , 2007, , .		13
75	RMTool: Component-Based Network Management System for Wireless Sensor Networks. , 2007, , .		5
76	HCRL: A Hop-Count-Ratio based Localization in Wireless Sensor Networks. , 2007, , .		43
77	Energy-Aware Routing Based on Runtime Power Consumption Characteristics of Sensor Hardware. , 2007, , .		0
78	Multi-hop-based Monte Carlo Localization for Mobile Sensor Networks. , 2007, , .		33
79	Proxy-based failure detection in multimedia streaming environments. International Journal of Communication Systems, 2007, 20, 131-145.	1.6	2
80	Empirical evaluation of receiver-based TCP delay control in CDMA2000 networks. International Journal of Communication Systems, 2007, 20, 927-941.	1.6	0
81	Dynamic refresh-rate scaling via frame buffer monitoring for power-aware LCD management. Software - Practice and Experience, 2007, 37, 193-206.	2.5	2
82	An Empirical Study of Antenna Characteristics Toward RF-Based Localization for IEEE 802.15.4 Sensor Nodes. , 2007, , 309-324.		19
83	An Efficient Power Management Mechanism for WiFi-Based Handheld Systems. , 2006, , .		1
84	A Light-weight and Scalable Localization Technique Using Mobile Acoustic Source. , 2006, , .		3
85	A Video Streaming System for Mobile Phones: Practice and Experience. Wireless Networks, 2005, 11, 265-274.	2.0	7
86	Dynamic Frame Dropping for Bandwidth Control in MPEG Streaming System. Multimedia Tools and Applications, 2003, 19, 155-178.	2.6	11
87	Experimental Analysis of Timing Validation Methods for Distributed Real-Time Systems. Journal of Supercomputing, 2003, 25, 73-94.	2.4	1
88	Constructing a video server with tertiary storage: Practice and experience. Multimedia Systems, 2002, 8, 380-394.	3.0	2
89	A Locating Mechanism for Multiple Mobile Nodes in Wireless Sensor Networks. , 0, , .		3