

Y Charlie Hu

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

3,818
citations

279798

23
h-index

276875

41
g-index

99
all docs

99
docs citations

99
times ranked

2767
citing authors

#	ARTICLE	IF	CITATIONS
1	Where is the energy spent inside my app?. , 2012, , .		478
2	Fine-grained power modeling for smartphones using system call tracing. , 2011, , .		275
3	Path planning of mobile landmarks for localization in wireless sensor networks. Computer Communications, 2007, 30, 2577-2592.	5.1	205
4	On the impact of packet spraying in data center networks. , 2013, , .		173
5	Bootstrapping energy debugging on smartphones. , 2011, , .		165
6	Characterizing and modeling the impact of wireless signal strength on smartphone battery drain. , 2013, , .		102
7	Hierarchical geographic multicast routing for wireless sensor networks. Wireless Networks, 2010, 16, 449-466.	3.0	91
8	DMesh: Incorporating Practical Directional Antennas in Multichannel Wireless Mesh Networks. IEEE Journal on Selected Areas in Communications, 2006, 24, 2028-2039.	14.0	90
9	Pacifier: High-Throughput, Reliable Multicast Without "Crying Babies" in Wireless Mesh Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1375-1388.	3.8	90
10	CCACK: Efficient Network Coding Based Opportunistic Routing Through Cumulative Coded Acknowledgments. , 2010, , .		87
11	The only constant is change. Computer Communication Review, 2012, 42, 199-210.	1.8	83
12	Furion: Engineering High-Quality Immersive Virtual Reality on Today's Mobile Devices. IEEE Transactions on Mobile Computing, 2020, 19, 1586-1602.	5.8	81
13	Sensor replacement using mobile robots. Computer Communications, 2007, 30, 2615-2626.	5.1	79
14	Topology-Aware Routing in Structured Peer-to-Peer Overlay Networks. Lecture Notes in Computer Science, 2003, , 103-107.	1.3	77
15	Duet. , 2014, , .		74
16	Characterizing and modeling the impact of wireless signal strength on smartphone battery drain. Performance Evaluation Review, 2013, 41, 29-40.	0.6	68
17	Distributed Hashing for Scalable Multicast in Wireless Ad Hoc Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 347-362.	5.6	61
18	A Self-Organizing Flock of Condors. , 2003, , .		60

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19	P-SLAM: Simultaneous Localization and Mapping With Environmental-Structure Prediction. , 2007, 23, 281-293.		60
20	Assisted Peer-to-Peer Search with Partial Indexing. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1146-1158.	5.6	59
21	Studying wireless routing link metric dynamics. , 2007, , .		58
22	iSPY: Detecting IP Prefix Hijacking on My Own. IEEE/ACM Transactions on Networking, 2010, 18, 1815-1828.	3.8	55
23	Efficient Network-Coding-Based Opportunistic Routing Through Cumulative Coded Acknowledgments. IEEE/ACM Transactions on Networking, 2011, 19, 1368-1381.	3.8	53
24	A self-organizing flock of Condors. Journal of Parallel and Distributed Computing, 2006, 66, 145-161.	4.1	51
25	Smartphone Energy Drain in the Wild. Performance Evaluation Review, 2015, 43, 151-164.	0.6	51
26	The performance impact of kernel prefetching on buffer cache replacement algorithms. , 2005, , .		49
27	Ispy. Computer Communication Review, 2008, 38, 327-338.	1.8	49
28	Borg. , 2003, , .		47
29	A Measurement Study of Internet Delay Asymmetry. , 2008, , 182-191.		47
30	Energy and Performance of Smartphone Radio Bundling in Outdoor Environments. , 2015, , .		44
31	Characterizing multi-way interference in wireless mesh networks. , 2006, , .		38
32	High-throughput multicast routing metrics in wireless mesh networks. Ad Hoc Networks, 2008, 6, 878-899.	5.5	38
33	Understanding network delay changes caused by routing events. , 2007, , .		35
34	The performance impact of traffic patterns on routing protocols in mobile ad hoc networks. Computer Networks, 2007, 51, 3595-3616.	5.1	33
35	Botnet spam campaigns can be long lasting. , 2009, , .		30
36	Mitigating the gateway bottleneck via transparent cooperative caching in wireless mesh networks. Ad Hoc Networks, 2007, 5, 680-703.	5.5	29

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37	Multi-robot SLAM with topological/metric maps. , 2007, , .		27
38	On the scalability of rendezvous-based location services for geographic wireless ad hoc routing. Computer Networks, 2007, 51, 3693-3714.	5.1	27
39	How to Improve Your Search Engine Ranking. ACM Transactions on the Web, 2014, 8, 1-25.	2.5	27
40	Mobility-aware ad hoc routing protocols for networking mobile robot teams. Journal of Communications and Networks, 2007, 9, 296-311.	2.6	26
41	Hierarchical Geographic Multicast Routing for Wireless Sensor Networks. , 2007, , .		25
42	Overlay Node Placement: Analysis, Algorithms and Impact on Applications. , 2007, , .		25
43	High performance Fortran for highly irregular problems. , 1997, , .		24
44	On the Placement of Infrastructure Overlay Nodes. IEEE/ACM Transactions on Networking, 2009, 17, 1298-1311.	3.8	23
45	The Performance Impact of Kernel Prefetching on Buffer Cache Replacement Algorithms. IEEE Transactions on Computers, 2007, 56, 889-908.	3.4	22
46	Realizing the full potential of PSM using proxying. , 2012, , .		22
47	The performance impact of traffic patterns on routing protocols in mobile ad hoc networks. , 2004, , .		19
48	An interference-aware fair scheduling for multicast in wireless mesh networks. Journal of Parallel and Distributed Computing, 2008, 68, 372-386.	4.1	18
49	Energy-efficient data dissemination using beamforming in wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 9, 1-30.	3.6	17
50	Backpacking: Energy-Efficient Deployment of Heterogeneous Radios in Multi-Radio High-Data-Rate Wireless Sensor Networks. IEEE Access, 2014, 2, 1281-1306.	4.2	17
51	Measuring and Evaluating TCP Splitting for Cloud Services. Lecture Notes in Computer Science, 2010, , 41-50.	1.3	17
52	Imposed Route Reuse in Ad Hoc Network Routing Protocols Using Structured Peer-to-Peer Overlay Routing. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1452-1467.	5.6	16
53	Kosha: A Peer-to-Peer Enhancement for the Network File System. Journal of Grid Computing, 2006, 4, 323-341.	3.9	15
54	SYREN: Synergistic Link Correlation-Aware and Network Coding-Based Dissemination in Wireless Sensor Networks. , 2013, , .		15

#	ARTICLE	IF	CITATIONS
55	Energy-time-efficient adaptive dispatching algorithms for ant-like robot systems. , 2004, , .		14
56	Exploring the design space of reliable multicast protocols for wireless mesh networks. Ad Hoc Networks, 2009, 7, 932-954.	5.5	14
57	Efficient Online WiFi Delivery of Layered-Coding Media Using Inter-layer Network Coding. , 2011, , .		14
58	Yoda. , 2016, , .		14
59	How to Improve Your Google Ranking: Myths and Reality. , 2010, , .		13
60	Trust but verify. , 2005, , .		12
61	The Case for FEC-Based Reliable Multicast in Wireless Mesh Networks. , 2007, , .		12
62	FEC-based AP downlink transmission schemes for multiple flows: Combining the reliability and throughput enhancement of intra- and inter-flow coding. Performance Evaluation, 2011, 68, 1118-1135.	1.2	12
63	Run-time support for distributed sharing in safe languages. ACM Transactions on Computer Systems, 2003, 21, 1-35.	0.8	11
64	Radiating sensor selection for distributed beamforming in wireless sensor networks. , 2008, , .		11
65	A parallel branch-and-cut approach for detailed placement. ACM Transactions on Design Automation of Electronic Systems, 2011, 16, 1-19.	2.6	11
66	On the feasibility of bandwidth estimation in wireless access networks. Wireless Networks, 2011, 17, 1561-1580.	3.0	10
67	A Fine-grained Event-based Modem Power Model for Enabling In-depth Modem Energy Drain Analysis. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2017, 1, 1-28.	1.8	10
68	Topology-Aware Peer-to-Peer On-demand Streaming. Lecture Notes in Computer Science, 2005, , 1-14.	1.3	10
69	Backpacking: Deployment of Heterogeneous Radios in High Data Rate Sensor Networks. , 2011, , .		9
70	On the feasibility of bandwidth estimation in 1x EVDO networks. , 2009, , .		9
71	HC-BGP: A light-weight and flexible scheme for securing prefix ownership. , 2009, , .		8
72	HPFBench. ACM Transactions on Mathematical Software, 2000, 26, 99-149.	2.9	7

#	ARTICLE	IF	CITATIONS
73	On the fairness of frequency domain resource allocation in Wireless Mesh Networks — A survey. , 2011, , .		6
74	Content retrieval using cloud-based DNS. , 2012, , .		6
75	Joint routing and resource allocation for delay sensitive traffic in cognitive mesh networks. , 2011, , .		5
76	A Case for Sampling-Based Learning Techniques in Coflow Scheduling. IEEE/ACM Transactions on Networking, 2022, 30, 1494-1508.	3.8	5
77	A Fair, Secure and Trustworthy Peer-to-Peer Based Cycle-Sharing System. Journal of Grid Computing, 2006, 4, 265-286.	3.9	4
78	MicroRouting: A Scalable and Robust Communication Paradigm for Sparse Ad Hoc Networks. International Journal of Distributed Sensor Networks, 2006, 2, 79-100.	2.2	4
79	The delay region for P2P file transfer. , 2009, , .		4
80	Predicting Prefix Availability in the Internet. , 2010, , .		4
81	The impact of inter-layer network coding on the relative performance of MRC/MDC WiFi media delivery. , 2011, , .		4
82	Phase difference and frequency offset estimation for collaborative beamforming in sensor networks. , 2010, , .		3
83	BGP molecules: Understanding and predicting prefix failures. , 2011, , .		3
84	Can 5G mmWave Support Multi-user AR?. Lecture Notes in Computer Science, 2022, , 180-196.	1.3	3
85	High performance Fortran for highly irregular problems. ACM SIGPLAN Notices, 1997, 32, 13-24.	0.2	2
86	The Case for Spam-Aware High Performance Mail Server Architecture. , 2009, , .		2
87	Prediction models for long-term Internet prefix availability. Computer Networks, 2011, 55, 873-889.	5.1	2
88	On the performance projectability of MapReduce. , 2012, , .		2
89	Lightweight Monitoring of the Progress of Remotely Executing Computations. Lecture Notes in Computer Science, 2006, , 319-333.	1.3	2
90	Collaborative beamforming in wireless sensor networks. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
91	Designing coded feedback for efficient network coding based opportunistic routing. Mobile Computing and Communications Review, 2010, 14, 10-12.	1.7	1
92	On the Equivalence of Forward and Reverse Query Caching in Peer-to-Peer Overlay Networks. Lecture Notes in Computer Science, 2004, , 169-181.	1.3	0
93	"Take One Get One Free": Leveraging P2P Networks for Content Promotion. , 2006, , .		0
94	A variable beamwidth antenna for wireless mesh networks. , 2007, , .		0
95	On the Impact of Filters on Analyzing Prefix Reachability in the Internet. , 2009, , .		0
96	Multicasting MDC videos to receivers with different screen resolution. Performance Evaluation Review, 2011, 39, 122-124.	0.6	0
97	A Fine-grained Event-based Modem Power Model for Enabling In-depth Modem Energy Drain Analysis. Performance Evaluation Review, 2019, 46, 107-109.	0.6	0