Tian He

List of Publications by Year
in descending order

142 papers	3,416 citations	331259 21 h-index	315357 38 g-index
143 all docs	143 docs citations	143 times ranked	2448 citing authors

#	Article	IF	Citations
1	: Mobility-Driven Integration of Heterogeneous Urban Cyber-Physical Systems Under Disruptive Events<i />. IEEE Transactions on Mobile Computing, 2023, 22, 906-922.	3.9	1
2	REN: Receiver-Driven Congestion Control Using Explicit Notification for Data Center. IEEE Transactions on Cloud Computing, 2023, 11, 1381-1394.	3.1	2
3	ROSE: Robustly Safe Charging for Wireless Power Transfer. IEEE Transactions on Mobile Computing, 2022, 21, 2180-2197.	3.9	38
4	From Conception to Retirement: A Lifetime Story of a 3-Year-Old Wireless Beacon System in the Wild. IEEE/ACM Transactions on Networking, 2022, 30, 47-61.	2.6	12
5	Achieving Per-Flow Fairness and High Utilization With Limited Priority Queues in Data Center. IEEE/ACM Transactions on Networking, 2022, 30, 2374-2387.	2.6	4
6	Transforming the East Asian developmental state: Democratic mobilisation and the role of the middle class. Asian Journal of Comparative Politics, 2021, 6, 109-126.	0.6	3
7	Data-Driven Digital Advertising with Uncertain Demand Model in Metro Networks. IEEE Transactions on Big Data, 2021, 7, 313-326.	4.4	5
8	The Political Economy of Developmental States in East Asia. , 2021, , .		2
9	Networking Support for Bidirectional Cross-Technology Communication. IEEE Transactions on Mobile Computing, 2021, 20, 204-216.	3.9	20
10	Connectivity-Constrained Placement of Wireless Chargers. IEEE Transactions on Mobile Computing, 2021, 20, 909-927.	3.9	13
11	ViFi-MobiScanner: Observe Human Mobility via Vehicular Internet Service. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 280-292.	4.7	9
12	Enabling Global Cooperation for Heterogeneous Networks via Reliable Concurrent Cross Technology Communications. IEEE Transactions on Mobile Computing, 2021, , 1-1.	3.9	2
13	Adjusting Switching Granularity of Load Balancing for Heterogeneous Datacenter Traffic. IEEE/ACM Transactions on Networking, 2021, 29, 2367-2384.	2.6	15
14	Polarized media portrayals of Taiwanâ€™s exclusion from RCEP. Asian Politics and Policy, 2021, 13, 284-288.	0.6	0
15	Mitigating Packet Reordering for Random Packet Spraying in Data Center Networks. IEEE/ACM Transactions on Networking, 2021, 29, 1183-1196.	2.6	22
16	RMC: Reordering Marking and Coding for Fine-Grained Load Balancing in Data Centers. IEEE Transactions on Communications, 2021, 69, 8363-8374.	4.9	4
17	Unravelling an East Asian Puzzle. , 2021, , 1-48.		0
18	The Rapid Transformation of the Developmental State in South Korea. , 2021, , 49-98.		0

#	ARTICLE	IF	CITATIONS
19	The Non-Transformation of the Developmental State in Singapore. , 2021, , 99-153.		0
20	The Two-Phase Transformation of the Developmental State in Taiwan. , 2021, , 155-206.		0
21	Understanding the Transformation of the Developmental State. , 2021, , 207-230.		0
22	RPO: Receiver-driven Transport Protocol Using Opportunistic Transmission in Data Center. , 2021, , .		5
23	Towards a theory of the transformation of the developmental state: political elites, social actors and state policy constraints in South Korea and Taiwan. Japanese Journal of Political Science, 2020, 21, 47-67.	0.6	2
24	Proactive Power Management Scheme for Hybrid Electric Storage System in EVs: An MPC Method. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5246-5257.	4.7	22
25	Neighbor Discovery Based on Cross-Technology Communication for Mobile Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 11179-11191.	3.9	14
26	Flow-Aware Adaptive Pacing to Mitigate TCP Incast in Data Center Networks. IEEE/ACM Transactions on Networking, 2020, , 1-14.	2.6	8
27	Global Cooperation for Heterogeneous Networks. , 2020, , .		5
28	S-MAC: Achieving High Scalability via Adaptive Scheduling in LPWAN. , 2020, , .		28
29	Ethnic Identity Politics and the Transformation of the Developmental State: Industrial Structure, Democratic Transition, and Policy Constraints in Taiwan. Asian Politics and Policy, 2020, 12, 296-315.	0.6	1
30	Radiation Constrained Wireless Charger Placement. IEEE/ACM Transactions on Networking, 2020, , 1-17.	2.6	15
31	Reliable Physical-Layer Cross-Technology Communication With Emulation Error Correction. IEEE/ACM Transactions on Networking, 2020, 28, 612-624.	2.6	11
32	SoftHM: A Software-Based Hierarchical Modulation Design for Wireless System. IEEE/ACM Transactions on Networking, 2020, , 1-13.	2.6	0
33	SunChoice: A Novel Framework for Sunshine-Based Trajectories Analysis. IEEE Access, 2019, 7, 41757-41769.	2.6	0
34	Task-Aware TCP in Data Center Networks. IEEE/ACM Transactions on Networking, 2019, 27, 389-404.	2.6	20
35	Boosting the Bitrate of Cross-Technology Communication on Commodity IoT Devices. IEEE/ACM Transactions on Networking, 2019, 27, 1069-1083.	2.6	11
36	Multi-Rate Selection in ZigBee. IEEE/ACM Transactions on Networking, 2019, 27, 1055-1068.	2.6	4

#	Article	IF	Citations
37	RowBee: A Routing Protocol Based on Cross-Technology Communication for Energy-Harvesting Wireless Sensor Networks. IEEE Access, 2019, 7, 40663-40673.	2.6	35
38	Sunshine-Based Trajectory Simplification. IEEE Access, 2019, 7, 47781-47793.	2.6	1
39	Improving TCP Robustness over Asymmetry with Reordering Marking and Coding in Data Centers. , 2019, , .		7
40	CAPS: Coding-Based Adaptive Packet Spraying to Reduce Flow Completion Time in Data Center. IEEE/ACM Transactions on Networking, 2019, 27, 2338-2353.	2.6	36
41	Adjusting Packet Size to Mitigate TCP Incast in Data Center Networks with COTS Switches. IEEE Transactions on Cloud Computing, 2019, , 1-1.	3.1	23
42	Data-Driven Robust Taxi Dispatch Under Demand Uncertainties. IEEE Transactions on Control Systems Technology, 2019, 27, 175-191.	3.2	38
43	SCAPE: Safe Charging With Adjustable Power. IEEE/ACM Transactions on Networking, 2018, 26, 520-533.	2.6	69
44	QDAPS: Queueing Delay Aware Packet Spraying for Load Balancing in Data Center. , 2018, , .		10
45	Networking Support For Physical-Layer Cross-Technology Communication. , 2018, , .		30
46	CAPS: Coding-based Adaptive Packet Spraying to Reduce Flow Completion Time in Data Center. , 2018, , .		16
47	Demand Estimation of Public Bike-Sharing System Based on Temporal and Spatial Correlation. , 2018, , .		7
48	LongBee: Enabling Long-Range Cross-Technology Communication. , 2018, , .		60
49	Robustly Safe Charging for Wireless Power Transfer. , 2018, , .		24
50	Explicit Channel Coordination via Cross-technology Communication. , 2018, , .		53
51	Urban-Scale Human Mobility Modeling With Multi-Source Urban Network Data. IEEE/ACM Transactions on Networking, 2018, 26, 671-684.	2.6	7
52	Transparent cross-technology communication over data traffic. , 2017, , .		71
53	Flow-Aware Adaptive Pacing to Mitigate TCP Incast in Data Center Networks. , 2017, , .		5
54	Task-aware TCP in Data Center Networks. , 2017, , .		0

#	Article	IF	Citations
55	Free Side-Channel Cross-Technology Communication in Wireless Networks. IEEE/ACM Transactions on Networking, 2017, 25, 2974-2987.	2.6	20
56	Exploiting Spatiotemporal Correlation for Wireless Networks Under Interference. IEEE/ACM Transactions on Networking, 2017, 25, 3132-3145.	2.6	12
57	Safe Charging for Wireless Power Transfer. IEEE/ACM Transactions on Networking, 2017, 25, 3531-3544.	2.6	100
58	Hybrid Bicycle Allocation for Usage Load Balancing and Lifetime Optimization in Bike-Sharing Systems. , 2017, , .		5
59	Taxi-Passenger-Demand Modeling Based on Big Data from a Roving Sensor Network. IEEE Transactions on Big Data, 2017, 3, 362-374.	4.4	41
60	Neighbor Discovery and Rendezvous Maintenance with Extended Quorum Systems for Mobile Applications. IEEE Transactions on Mobile Computing, 2017, 16, 1967-1980.	3.9	22
61	Adaptive Beacon Transmission in Cognitive-OFDM-Based Industrial Wireless Networks. IEEE Communications Letters, 2017, 21, 152-155.	2.5	5
62	C-Morse: Cross-technology communication with transparent Morse coding. , 2017, , .		81
63	Achieving Spectrum Efficient Communication under Cross-Technology Interference. , 2017, , .		11
64	BlueBee. , 2017, , .		67
65	SmartLight. , 2017, , .		40
66	Cross-Technology Communication via PHY-Layer Emulation. , 2017, , .		1
67	A Unified Metric for Correlated Diversity in Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6215-6227.	6.1	14
68	Distributed Control for Charging Multiple Electric Vehicles with Overload Limitation. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3441-3454.	4.0	29
69	Taxi Dispatch With Real-Time Sensing Data in Metropolitan Areas: A Receding Horizon Control Approach. IEEE Transactions on Automation Science and Engineering, 2016, 13, 463-478.	3.4	132
70	Adaptive compressive engine for real–time electrocardiogram monitoring under unreliable wireless channels. IET Communications, 2016, 10, 607-615.	1.5	14
71	IoT Networking: From Coexistence to Collaboration (Invited Paper). , 2016, , .		0
72	Radiation constrained wireless charger placement. , 2016, , .		52

#	ARTICLE	IF	CITATIONS
73	ARS: Cross-layer adaptive request scheduling to mitigate TCP incast in data center networks. , 2016, , .		20
74	Group-Based Neighbor Discovery in Low-Duty-Cycle Mobile Sensor Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1996-2009.	3.9	32
75	Side Channel Communication over Wireless Traffic. , 2016, , .		1
76	Packet Slicing for Highly Concurrent TCPs in Data Center Networks with COTS Switches. , 2015, , .		13
77	OppCode: Correlated Opportunistic Coding for Energy-Efficient Flooding in Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2015, 11, 1631-1642.	7.2	10
78	Delay-Bounded Transmission Power Control for Low-Duty-Cycle Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3157-3170.	6.1	17
79	EveryoneCounts: Data-driven digital advertising with uncertain demand model in metro networks. , 2015, , .		2
80	BarFi: Barometer-Aided Wi-Fi Floor Localization Using Crowdsourcing. , 2015, , .		23
81	Exploiting causes and effects of wireless link correlation for better performance. , 2015, , .		17
82	CorLayer: A Transparent Link Correlation Layer for Energy-Efficient Broadcast. IEEE/ACM Transactions on Networking, 2015, 23, 1970-1983.	2.6	10
83	Exploring human mobility with multi-source data at extremely large metropolitan scales. , 2014, , .		111
84	Circular Pipelining: Minimizing Round-Trip Delay in Low-Duty-Cycle Wireless Networks. , 2014, , .		4
85	Opportunistic Flooding in Low-Duty-Cycle Wireless Sensor Networks with Unreliable Links. IEEE Transactions on Computers, 2014, 63, 2787-2802.	2.4	106
86	Minimizing communication delay in RFID-based wireless rechargeable sensor networks. , 2014, , .		13
87	Distributed range–free localisation algorithm for wireless sensor networks. Electronics Letters, 2014, 50, 894-896.	0.5	7
88	A Carpooling Recommendation System for Taxicab Services. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 254-266.	3.2	52
89	SCAPE: Safe Charging with Adjustable Power. , 2014, , .		21
90	Exploiting Trajectory-Based Coverage for Geocast in Vehicular Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3177-3189.	4.0	35

#	Article	IF	Citations
91	Opportunistic Coding for Multi-Packet Flooding in Wireless Sensor Networks with Correlated Links. , 2014, , .		2
92	Safe Charging for wireless power transfer. , 2014, , .		76
93	Coding Opportunity Aware Backbone Metrics for Broadcast in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1999-2009.	4.0	11
94	Dmodel: Online Taxicab Demand Model from Big Sensor Data in a Roving Sensor Network. , 2014, , .		21
95	Collaborative sensing and control in large-scale transportation systems. , 2014, , .		1
96	TOC: Localizing wireless rechargeable sensors with time of charge. , 2014, , .		18
97	kBF: A Bloom Filter for key-value storage with an application on approximate state machines. , 2014, , .		20
98	SCAPE: Safe Charging with Adjustable PowEr. , 2014, , .		3
99	Sociality-Aware Access Point Selection in Enterprise Wireless LANs. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 2069-2078.	4.0	17
100	Minimizing charging delay in wireless rechargeable sensor networks. , 2013, , .		150
101	Throughput Optimization in Energy Sharing Wireless Sensor Networks. , 2013, , .		1
102	Coding Opportunity Aware Backbone metrics for broadcast in wireless networks. , 2013, , .		10
103	CallCab: A unified recommendation system for carpooling and regular taxicab services. , 2013, , .		25
104	Optimizing Event-Driven Localization. , 2013, , .		0
105	coRide. , 2013, , .		48
106	Asymmetric Event-Driven Node Localization in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 634-642.	4.0	21
107	Group-based discovery in low-duty-cycle mobile sensor networks. , 2012, , .		16
108	Robust multi-pipeline scheduling in low-duty-cycle wireless sensor networks. , 2012, , .		16

#	Article	IF	Citations
109	pCruise: Reducing Cruising Miles for Taxicab Networks. , 2012, , .		21
110	Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery. IEEE Transactions on Mobile Computing, 2012, 11, 1523-1537.	3.9	81
111	Maintaining Quality of Sensing with Actors in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1657-1667.	4.0	31
112	Collaborative Scheduling in Highly Dynamic Environments Using Error Inference. , 2011, , .		6
113	Safeguarding schedule updates in wireless sensor networks. , 2011, , .		4
114	On Energy-Efficient Trap Coverage in Wireless Sensor Networks. , 2011, , .		10
115	Trajectory-Based Data Forwarding for Light-Traffic Vehicular Ad Hoc Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 743-757.	4.0	89
116	Bubble Trace: Mobile Target Tracking under Insufficient Anchor Coverage. , 2011, , .		10
117	A Privacy-Preserving Location Monitoring System for Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 94-107.	3.9	67
118	Utilizing shared vehicle trajectories for data forwarding in vehicular networks. , 2011, , .		65
119	Autonomous Passive Localization Algorithm for Road Sensor Networks. IEEE Transactions on Computers, 2011, 60, 1622-1637.	2.4	12
120	On-demand time synchronization with predictable accuracy. , 2011, , .		58
121	r-Kernel: An operating system foundation for highly reliable networked embedded systems. , 2011, , .		0
122	Node Localization in Wireless Sensor Networks. , 2010, , 535-563.		2
123	Reliable data aggregation and dissemination framework in tactical network architecture. , 2010, , .		0
124	Predictive dependency constraint directed self-healing for wireless sensor networks. , 2010, , .		4
125	TSF: Trajectory-Based Statistical Forwarding for Infrastructure-to-Vehicle Data Delivery in Vehicular Networks. , 2010, , .		69
126	Bounding Communication Delay in Energy Harvesting Sensor Networks. , 2010, , .		31

#	ARTICLE	IF	CITATIONS
127	Aggregate Location Monitoring for Wireless Sensor Networks: A Histogram-Based Approach. , 2009, , .		7
128	Automatic Dynamic Resource Management architecture in tactical network environments. , 2009, , .		9
129	Towards Stable Network Performance in Wireless Sensor Networks. , 2009, , .		43
130	TBD: Trajectory-Based Data Forwarding for Light-Traffic Vehicular Networks. , 2009, , .		78
131	ESC: Energy Synchronized Communication in sustainable sensor networks. , 2009, , .		51
132	Spatiotemporal Delay Control for Low-Duty-Cycle Sensor Networks. , 2009, , .		60
133	Sensor Node Localization Using Uncontrolled Events. , 2008, , .		15
134	Cscan: A Correlation-based Scheduling Algorithm for Wireless Sensor Networks. , 2008, , .		5
135	CPS-IP. ACM SIGBED Review, 2008, 5, 1-2.	1.8	12
136	Toward consolidated tactical network architecture: A modeling and simulation study. , 2008, , .		4
137	On accurate and efficient statistical counting in sensor-based surveillance systems. , 2008, , .		5
138	uCast: Unified Connectionless Multicast for Energy Efficient Content Distribution in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 240-250.	4.0	25
139	uSense: A Unified Asymmetric Sensing Coverage Architecture for Wireless Sensor Networks. , 2007, , .		20
140	Robust and timely communication over highly dynamic sensor networks. Real-Time Systems, 2007, 37, 261-289.	1.1	49
141	An overview of data aggregation architecture for real-time tracking with sensor networks. , 2006, , .		1
142	Achieving Real-Time Target Tracking UsingWireless Sensor Networks. , 0, , .		86