Hongbo Jiang

List of Publications by Year
in descending order

128 papers	3,617 citations	147801 31 h-index	189892 50 g-index
128 all docs	128 docs citations	128 times ranked	2644 citing authors

#	Article	IF	Citations
1	WiDE: WiFi Distance Based Group Profiling Via Machine Learning. IEEE Transactions on Mobile Computing, 2023, 22, 607-620.	5.8	3
2	Understanding Private Car Aggregation Effect via Spatio-Temporal Analysis of Trajectory Data. IEEE Transactions on Cybernetics, 2023, 53, 2346-2357.	9.5	49
3	Joint Task Offloading and Resource Allocation for Energy-Constrained Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2023, 22, 4000-4015.	5.8	65
4	Task Co-Offloading for D2D-Assisted Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 480-490.	11.3	117
5	Task Offloading for Cloud-Assisted Fog Computing With Dynamic Service Caching in Enterprise Management Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 662-672.	11.3	43
6	An Energy-Efficient Framework for Internet of Things Underlaying Heterogeneous Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 31-43.	5.8	117
7	Stop Deceiving! An Effective Defense Scheme Against Voice Impersonation Attacks on Smart Devices. IEEE Internet of Things Journal, 2022, 9, 5304-5314.	8.7	11
8	Exploring Human Mobility Patterns and Travel Behavior: A Focus on Private Cars. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 129-146.	3.8	8
9	Understanding Urban Area Attractiveness Based on Private Car Trajectory Data Using a Deep Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12343-12352.	8.0	6
10	Location Privacy-preserving Mechanisms in Location-based Services. ACM Computing Surveys, 2022, 54, 1-36.	23.0	72
11	Half-Duplex Mode-Based Secure Key Generation Method for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2022, 9, 1326-1338.	8.7	3
12	Two-Stream Spatial–Temporal Graph Convolutional Networks for Driver Drowsiness Detection. IEEE Transactions on Cybernetics, 2022, 52, 13821-13833.	9.5	19
13	Class Incremental Learning With Few-Shots Based on Linear Programming for Hyperspectral Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 5474-5485.	9.5	24
14	Computation Bits Maximization in UAV-Enabled Mobile-Edge Computing System. IEEE Internet of Things Journal, 2022, 9, 10640-10651.	8.7	12
15	Channel Attention Image Steganography With Generative Adversarial Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 888-903.	6.4	65
16	Exploiting Spatiotemporal Correlations of Arrive-Stay-Leave Behaviors for Private Car Flow Prediction. IEEE Transactions on Network Science and Engineering, 2022, 9, 834-847.	6.4	8
17	Spatial-Temporal Conv-Sequence Learning With Accident Encoding for Traffic Flow Prediction. IEEE Transactions on Network Science and Engineering, 2022, 9, 1765-1775.	6.4	9
18	Fast Retrieval of Large Entries With Incomplete Measurement Data. IEEE/ACM Transactions on Networking, 2022, , 1-15.	3.8	0

#	Article	IF	Citations
19	Performance Analysis of Mixed PLC-FSO Dual-Hop Communication Systems. IEEE Internet of Things Journal, 2022, 9, 19307-19317.	8.7	9
20	Toward Predicting Stay Time for Private Car Users: A RNN-NALU Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 6007-6018.	6.3	1
21	A Novel Dynamic Channel Assembling Strategy in Cognitive Radio Networks With Fine-Grained Flow Classification. IEEE Internet of Things Journal, 2022, 9, 19599-19614.	8.7	2
22	Utility-aware and Privacy-preserving Trajectory Synthesis Model that Resists Social Relationship Privacy Attacks. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-28.	4.5	3
23	PupilRec: Leveraging Pupil Morphology for Recommending on Smartphones. IEEE Internet of Things Journal, 2022, 9, 15538-15553.	8.7	26
24	Manipulating Supply Chain Demand Forecasting with Targeted Poisoning Attacks. IEEE Transactions on Industrial Informatics, 2022, , 1-1.	11.3	1
25	Semantic-Aware Privacy-Preserving Online Location Trajectory Data Sharing. IEEE Transactions on Information Forensics and Security, 2022, 17, 2256-2271.	6.9	9
26	When Deep Learning Meets Steganography: Protecting Inference Privacy in the Dark. , 2022, , .		3
27	Person Tracking by Detection Using Dual Visible-Infrared Cameras. IEEE Internet of Things Journal, 2022, 9, 23241-23251.	8.7	3
28	A Load-Balanced and Energy-Efficient Navigation Scheme for UAV-Mounted Mobile Edge Computing. IEEE Transactions on Network Science and Engineering, 2022, 9, 3659-3674.	6.4	15
29	Harmonizing Energy Efficiency and QoE for Brightness Scaling-based Mobile Video Streaming. , 2022, , .		5
30	Resource management in UAV-assisted MEC: state-of-the-art and open challenges. Wireless Networks, 2022, 28, 3305-3322.	3.0	19
31	Fly-Navi: A Novel Indoor Navigation System With On-the-Fly Map Generation. IEEE Transactions on Mobile Computing, 2021, 20, 2820-2834.	5.8	20
32	An Empirical Study of Travel Behavior Using Private Car Trajectory Data. IEEE Transactions on Network Science and Engineering, 2021, 8, 53-64.	6.4	12
33	Toward Accurate Intervehicle Positioning Based on GNSS Pseudorange Measurements Under Non-Gaussian Generalized Errors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	7
34	Simultaneous Material Identification and Target Imaging with Commodity RFID Devices. IEEE Transactions on Mobile Computing, 2021, 20, 739-753.	5.8	14
35	Computation Efficiency Maximization and QoE-Provisioning in UAV-Enabled MEC Communication Systems. IEEE Transactions on Network Science and Engineering, 2021, 8, 1630-1645.	6.4	41
36	Social Relationship Inference Over Private Vehicle Mobility Data. IEEE Transactions on Vehicular Technology, 2021, 70, 5221-5233.	6.3	5

#	Article	IF	Citations
37	Robust Transmission Expansion Planning Based on Adaptive Uncertainty Set Optimization Under High-Penetration Wind Power Generation. IEEE Transactions on Power Systems, 2021, 36, 2798-2814.	6.5	27
38	Garbage In, Garbage Out: Poisoning Attacks Disguised With Plausible Mobility in Data Aggregation. IEEE Transactions on Network Science and Engineering, 2021, 8, 2679-2693.	6.4	6
39	CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. IEEE Internet of Things Journal, 2021, 8, 14658-14671.	8.7	4
40	A Utility-Aware General Framework With Quantifiable Privacy Preservation for Destination Prediction in LBSs. IEEE/ACM Transactions on Networking, 2021, 29, 2228-2241.	3.8	68
41	Evidence in Hand: Passive Vibration Response-based Continuous User Authentication. , 2021, , .		4
42	PupilMeter: Modeling User Preference with Time-Series Features of Pupillary Response. , 2021, , .		1
43	Vehicular Task Offloading via Heat-Aware MEC Cooperation Using Game-Theoretic Method. IEEE Internet of Things Journal, 2020, 7, 2038-2052.	8.7	120
44	Exploring Individual Travel Patterns Across Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5036-5050.	8.0	51
45	A Joint Information and Energy Cooperation Framework for CR-Enabled Macroâ€"Femto Heterogeneous Networks. IEEE Internet of Things Journal, 2020, 7, 2828-2839.	8.7	32
46	TrajData: On Vehicle Trajectory Collection With Commodity Plug-and-Play OBU Devices. IEEE Internet of Things Journal, 2020, 7, 9066-9079.	8.7	32
47	Drive2friends: Inferring Social Relationships From Individual Vehicle Mobility Data. IEEE Internet of Things Journal, 2020, 7, 5116-5127.	8.7	39
48	Guest Editorial:Special Section on Endâ€"Edgeâ€"Cloud Orchestrated Algorithms, Systems and Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 4788-4790.	11.3	0
49	Resource Allocation and Trajectory Optimization for QoE Provisioning in Energy-Efficient UAV-Enabled Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 7634-7647.	6.3	84
50	On Extracting Regular Travel Behavior of Private Cars Based on Trajectory Data Analysis. IEEE Transactions on Vehicular Technology, 2020, 69, 14537-14549.	6.3	23
51	Stop-and-Wait: Discover Aggregation Effect Based on Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3623-3633.	8.0	45
52	MiFo: A novel edge network integration framework for fog computing. Peer-to-Peer Networking and Applications, 2019, 12, 269-279.	3.9	8
53	Energy-Aware Clustering and Routing in Infrastructure Failure Areas With D2D Communication. IEEE Internet of Things Journal, 2019, 6, 8645-8657.	8.7	30
54	Optimal design of IIR wideband digital differentiators and integrators using salp swarm algorithm. Knowledge-Based Systems, 2019, 182, 104834.	7.1	40

#	Article	IF	Citations
55	Toward Accurate Vehicle State Estimation Under Non-Gaussian Noises. IEEE Internet of Things Journal, 2019, 6, 10652-10664.	8.7	47
56	vGuard: A Spatiotemporal Efficiency Supervision Method For Vaccine Production Based On Double-level Blockchain. , 2019, , .		2
57	Throughput Maximization for Two-Way Buffer-Aided and Energy-Harvesting Enabled Multi-Relay Networks. IEEE Access, 2019, 7, 157972-157986.	4.2	7
58	Synthesizing Privacy Preserving Traces: Enhancing Plausibility With Social Networks. IEEE/ACM Transactions on Networking, 2019, 27, 2391-2404.	3.8	26
59	Indoor Navigation With Virtual Graph Representation: Exploiting Peak Intensities of Unmodulated Luminaries. IEEE/ACM Transactions on Networking, 2019, 27, 187-200.	3.8	10
60	On the Performance of k-Anonymity Against Inference Attacks With Background Information. IEEE Internet of Things Journal, 2019, 6, 808-819.	8.7	16
61	Adaptive Wireless Video Streaming Based on Edge Computing: Opportunities and Approaches. IEEE Transactions on Services Computing, 2019, 12, 685-697.	4.6	73
62	Smart Home Based on WiFi Sensing: A Survey. IEEE Access, 2018, 6, 13317-13325.	4.2	148
63	Slide: Towards Fast and Accurate Mobile Fingerprinting for Wi-Fi Indoor Positioning Systems. IEEE Sensors Journal, 2018, 18, 1213-1223.	4.7	36
64	ILLIA: Enabling <inline-formula> <tex-math notation="LaTeX">k </tex-math> </inline-formula>-Anonymity-Based Privacy Preserving Against Location Injection Attacks in Continuous LBS Queries. IEEE Internet of Things Journal, 2018, 5, 1033-1042.	8.7	90
65	RobLoP: Towards Robust Privacy Preserving Against Location Dependent Attacks in Continuous LBS Queries. IEEE/ACM Transactions on Networking, 2018, 26, 1018-1032.	3.8	37
66	Low Human-Effort, Device-Free Localization with Fine-Grained Subcarrier Information. IEEE Transactions on Mobile Computing, 2018, 17, 2550-2563.	5.8	54
67	WiFi Sensing-Based Real-Time Bus Tracking and Arrival Time Prediction in Urban Environments. IEEE Sensors Journal, 2018, 18, 4746-4760.	4.7	27
68	P^3-LOC: A Privacy-Preserving Paradigm-Driven Framework for Indoor Localization. IEEE/ACM Transactions on Networking, 2018, 26, 2856-2869.	3.8	40
69	SNP: A 1-Manifold Skeleton-Based Navigation Protocol in 3D Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 2912-2924.	5.8	0
70	Enabling Relay-Assisted D2D Communication for Cellular Networks: Algorithm and Protocols. IEEE Internet of Things Journal, 2018, 5, 3136-3150.	8.7	30
71	E-HIPA: An Energy-Efficient Framework for High-Precision Multi-Target-Adaptive Device-Free Localization. IEEE Transactions on Mobile Computing, 2017, 16, 716-729.	5.8	72
72	TagScan. , 2017, , .		136

#	Article	IF	Citations
73	D-Watch: Embracing "Bad" Multipaths for Device-Free Localization With COTS RFID Devices. IEEE/ACM Transactions on Networking, 2017, 25, 3559-3572.	3.8	73
74	FRESH: Push the Limit of D2D Communication Underlaying Cellular Networks. IEEE Transactions on Mobile Computing, 2017, 16, 1630-1643.	5.8	9
75	WiLocator: WiFi-Sensing Based Real-Time Bus Tracking and Arrival Time Prediction in Urban Environments. , 2016, , .		7
76	LiFS. , 2016, , .		193
77	Key Technologies for Integration of Multitype Renewable Energy Sources—Research on Multi-Timeframe Robust Scheduling/Dispatch. IEEE Transactions on Smart Grid, 2016, 7, 471-480.	9.0	52
78	Data Sweeper: A Proactive Filtering Framework for Error-Bounded Sensor Data Collection. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 487-501.	4.6	2
79	CANS: Towards Congestion-Adaptive and Small Stretch Emergency Navigation with Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1077-1089.	5.8	65
80	Minimizing Content Reorganization and Tolerating Imperfect Workload Prediction for Cloud-Based Video-on-Demand Services. IEEE Transactions on Services Computing, 2016, 9, 926-939.	4.6	6
81	SURF: A connectivity-based space filling curve construction algorithm in high genus 3D surface WSNs. , 2015, , .		8
82	Connectivity-Based Segmentation in Large-Scale 2-D/3-D Sensor Networks: Algorithm and Applications. IEEE/ACM Transactions on Networking, 2015, 23, 15-27.	3.8	10
83	A Unified Framework for Line-Like Skeleton Extraction in 2D/3D Sensor Networks. IEEE Transactions on Computers, 2015, 64, 1323-1335.	3.4	6
84	DualEMC: energy efficient mobile multimedia communication with cloud. Telecommunication Systems, 2015, 60, 85-94.	2.5	3
85	Boundary-free skeleton extraction and its evaluation in sensor networks. Wireless Networks, 2015, 21, 269-280.	3.0	4
86	An Approximate Convex Decomposition Protocol for Wireless Sensor Network Localization in Arbitrary-Shaped Fields. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3264-3274.	5.6	13
87	OPS: Opportunistic pipeline scheduling in long-strip wireless sensor networks with unreliable links. Wireless Networks, 2015, 21, 1669-1682.	3.0	6
88	Surface skeleton extraction and its application for data storage in 3D sensor networks. , 2014, , .		6
89	Exploring sharing patterns for video recommendation on YouTube-like social media. Multimedia Systems, 2014, 20, 675-691.	4.7	25
90	Network coding over connected dominating set: energy minimal broadcasting in wireless ad hoc networks. Wireless Networks, 2014, 20, 1023-1036.	3.0	2

#	Article	IF	Citations
91	Connectivity-Based Boundary Extractionof Large-Scale 3D Sensor Networks:Algorithm and Applications. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 908-918.	5.6	9
92	On the Utility of Concave Nodes in Geometric Processing of Large-Scale Sensor Networks. IEEE Transactions on Wireless Communications, 2014, 13, 132-143.	9.2	7
93	Coding Opportunity Aware Backbone Metrics for Broadcast in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1999-2009.	5.6	11
94	Trajectory-based multi-dimensional outlier detection in wireless sensor networks using Hidden Markov Models. Wireless Networks, 2014, 20, 2409-2418.	3.0	10
95	Lifetime Optimization by Load-Balanced and Energy Efficient Tree in Wireless Sensor Networks. Mobile Networks and Applications, 2013, 18, 488-499.	3.3	6
96	Developing an optimized application hosting framework in Clouds. Journal of Computer and System Sciences, 2013, 79, 1214-1229.	1.2	7
97	SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. IEEE Sensors Journal, 2013, 13, 3775-3784.	4.7	67
98	Distance Transform-Based Skeleton Extraction and Its Applications in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1763-1772.	5.6	20
99	A framework for truthful online auctions in cloud computing with heterogeneous user demands. , 2013, , .		105
100	SINUS: A scalable and distributed routing algorithm with guaranteed delivery for WSNs on high genus 3D surfaces. , 2013, , .		7
101	A unified framework for line-like skeleton extraction in 2D/3D sensor networks. , 2013, , .		8
102	On arbitrating the power-performance tradeoff in SaaS clouds. , 2013, , .		49
103	Approximate convex decomposition based localization in wireless sensor networks. , 2012, , .		22
104	Connectivity-based and Boundary-Free Skeleton Extraction in Sensor Networks. , 2012, , .		10
105	Skeleton Extraction from Incomplete Boundaries in Sensor Networks Based on Distance Transform. , 2012, , .		13
106	A General Framework for Efficient Continuous Multidimensional Top-k Query Processing in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1668-1680.	5.6	19
107	Energy-efficient location tracking with smartphones for IoT. , 2012, , .		20
108	Toward scalable Web systems on multicore clusters: making use of virtual machines. Journal of Supercomputing, 2012, 61, 27-45.	3.6	5

#	Article	IF	Citations
109	Energy-Efficient Mobile Data Uploading from High-Speed Trains. Mobile Networks and Applications, 2012, 17, 143-151.	3.3	7
110	Privacy in VoIP Networks: Flow Analysis Attacks and Defense. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 621-633.	5.6	9
111	Prediction or Not? An Energy-Efficient Framework for Clustering-Based Data Collection in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1064-1071.	5.6	152
112	On Efficient Processing of Continuous Historical Top- k Queries in Sensor Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 2363-2367.	6.3	10
113	Neither Shortest Path Nor Dominating Set: Aggregation Scheduling by Greedy Growing Tree in Multihop Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3462-3472.	6.3	22
114	Improving Application Placement for Cluster-Based Web Applications. IEEE Transactions on Network and Service Management, 2011, 8, 104-115.	4.9	12
115	On the design of algorithms for mobile multimedia systems: A survey. International Journal of Communication Systems, 2011, 24, 1330-1339.	2.5	17
116	Continuous multi-dimensional top-k query processing in sensor networks. , 2011, , .		21
117	CABET: Connectivity-based boundary extraction of large-scale 3D sensor networks. , 2011, , .		16
118	EAPAC: An Enhanced Application Placement Framework for Data Centers. , 2011, , .		3
119	Adapting grid applications to safety using fault-tolerant methods: Design, implementation and evaluations. Future Generation Computer Systems, 2010, 26, 236-244.	7.5	10
120	Parameter-Based Data Aggregation for Statistical Information Extraction in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3992-4001.	6.3	38
121	Network prefix-level traffic profiling: Characterizing, modeling, and evaluation. Computer Networks, 2010, 54, 3327-3340.	5.1	24
122	Seismic monitoring in underground mines: A case of mufulira mine in Zambia: Using wireless sensor networks for seismic monitoring. , 2010, , .		10
123	Wave propagation communication models for Wireless Underground Sensor Networks. , 2010, , .		14
124	Connectivity-Based Skeleton Extraction in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 710-721.	5.6	31
125	Wireless Sensor Networks in the Context of Zambia: A Developing Country. , 2010, , .		2
126	Efficient Distributed Positioning Algorithms for Wireless Sensor Networks. , 2009, , .		0

#	Article	IF	Citations
127	Capacity analysis of MediaGrid: a P2P IPTV platform for fiber to the node (FTTN) networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 131-139.	14.0	25
128	Novel approaches to efficient flooding search in peer-to-peer networks. Computer Networks, 2007, 51, 2818-2832.	5.1	18