

Hongbo Jiang

List of Publications by Year in descending order

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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	LiFS. , 2016, , .		193
2	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
3	Smart Home Based on WiFi Sensing: A Survey. IEEE Access, 2018, 6, 13317-13325.	4.2	148
4	TagScan. , 2017, , .		136
5	Vehicular Task Offloading via Heat-Aware MEC Cooperation Using Game-Theoretic Method. IEEE Internet of Things Journal, 2020, 7, 2038-2052.	8.7	120
6	An Energy-Efficient Framework for Internet of Things Underlying Heterogeneous Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 31-43.	5.8	117
7	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
8	A framework for truthful online auctions in cloud computing with heterogeneous user demands. , 2013, , .		105
9	ILLIA: Enabling ϵ -Anonymity-Based Privacy Preserving Against Location Injection Attacks in Continuous LBS Queries. IEEE Internet of Things Journal, 2018, 5, 1033-1042.	8.7	90
10	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
11	D-Watch: Embracing ϵ -Multipaths for Device-Free Localization With COTS RFID Devices. IEEE/ACM Transactions on Networking, 2017, 25, 3559-3572.	3.8	73
12	Adaptive Wireless Video Streaming Based on Edge Computing: Opportunities and Approaches. IEEE Transactions on Services Computing, 2019, 12, 685-697.	4.6	73
13	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
14	Location Privacy-preserving Mechanisms in Location-based Services. ACM Computing Surveys, 2022, 54, 1-36.	23.0	72
15	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
16	SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. IEEE Sensors Journal, 2013, 13, 3775-3784.	4.7	67
17	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
18	Channel Attention Image Steganography With Generative Adversarial Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 888-903.	6.4	65

#	ARTICLE	IF	CITATIONS
19	Joint Task Offloading and Resource Allocation for Energy-Constrained Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2023, 22, 4000-4015.	5.8	65
20	Low Human-Effort, Device-Free Localization with Fine-Grained Subcarrier Information. IEEE Transactions on Mobile Computing, 2018, 17, 2550-2563.	5.8	54
21	Key Technologies for Integration of Multitype Renewable Energy Sourcesâ€”Research on Multi-Timeframe Robust Scheduling/Dispatch. IEEE Transactions on Smart Grid, 2016, 7, 471-480.	9.0	52
22	Exploring Individual Travel Patterns Across Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5036-5050.	8.0	51
23	On arbitrating the power-performance tradeoff in SaaS clouds. , 2013, , .		49
24	Understanding Private Car Aggregation Effect via Spatio-Temporal Analysis of Trajectory Data. IEEE Transactions on Cybernetics, 2023, 53, 2346-2357.	9.5	49
25	Toward Accurate Vehicle State Estimation Under Non-Gaussian Noises. IEEE Internet of Things Journal, 2019, 6, 10652-10664.	8.7	47
26	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
27	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
28	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
29	P³-LOC: A Privacy-Preserving Paradigm-Driven Framework for Indoor Localization. IEEE/ACM Transactions on Networking, 2018, 26, 2856-2869.	3.8	40
30	Optimal design of IIR wideband digital differentiators and integrators using salp swarm algorithm. Knowledge-Based Systems, 2019, 182, 104834.	7.1	40
31	Drive2friends: Inferring Social Relationships From Individual Vehicle Mobility Data. IEEE Internet of Things Journal, 2020, 7, 5116-5127.	8.7	39
32	Parameter-Based Data Aggregation for Statistical Information Extraction in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3992-4001.	6.3	38
33	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
34	Slide: Towards Fast and Accurate Mobile Fingerprinting for Wi-Fi Indoor Positioning Systems. IEEE Sensors Journal, 2018, 18, 1213-1223.	4.7	36
35	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
36	TrajData: On Vehicle Trajectory Collection With Commodity Plug-and-Play OBU Devices. IEEE Internet of Things Journal, 2020, 7, 9066-9079.	8.7	32

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37	Connectivity-Based Skeleton Extraction in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 710-721.	5.6	31
38	Enabling Relay-Assisted D2D Communication for Cellular Networks: Algorithm and Protocols. IEEE Internet of Things Journal, 2018, 5, 3136-3150.	8.7	30
39	Energy-Aware Clustering and Routing in Infrastructure Failure Areas With D2D Communication. IEEE Internet of Things Journal, 2019, 6, 8645-8657.	8.7	30
40	WiFi Sensing-Based Real-Time Bus Tracking and Arrival Time Prediction in Urban Environments. IEEE Sensors Journal, 2018, 18, 4746-4760.	4.7	27
41	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
42	Synthesizing Privacy Preserving Traces: Enhancing Plausibility With Social Networks. IEEE/ACM Transactions on Networking, 2019, 27, 2391-2404.	3.8	26
43	PupilRec: Leveraging Pupil Morphology for Recommending on Smartphones. IEEE Internet of Things Journal, 2022, 9, 15538-15553.	8.7	26
44	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
45	Exploring sharing patterns for video recommendation on YouTube-like social media. Multimedia Systems, 2014, 20, 675-691.	4.7	25
46	Network prefix-level traffic profiling: Characterizing, modeling, and evaluation. Computer Networks, 2010, 54, 3327-3340.	5.1	24
47	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
48	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
49	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
50	Approximate convex decomposition based localization in wireless sensor networks. , 2012, , .		22
51	Continuous multi-dimensional top-k query processing in sensor networks. , 2011, , .		21
52	Energy-efficient location tracking with smartphones for IoT. , 2012, , .		20
53	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
54	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

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55	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
56	Two-Stream Spatial-Temporal Graph Convolutional Networks for Driver Drowsiness Detection. IEEE Transactions on Cybernetics, 2022, 52, 13821-13833.	9.5	19
57	Resource management in UAV-assisted MEC: state-of-the-art and open challenges. Wireless Networks, 2022, 28, 3305-3322.	3.0	19
58	Novel approaches to efficient flooding search in peer-to-peer networks. Computer Networks, 2007, 51, 2818-2832.	5.1	18
59	On the design of algorithms for mobile multimedia systems: A survey. International Journal of Communication Systems, 2011, 24, 1330-1339.	2.5	17
60	CABET: Connectivity-based boundary extraction of large-scale 3D sensor networks. , 2011, , .		16
61	On the Performance of k -Anonymity Against Inference Attacks With Background Information. IEEE Internet of Things Journal, 2019, 6, 808-819.	8.7	16
62	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
63	Wave propagation communication models for Wireless Underground Sensor Networks. , 2010, , .		14
64	Simultaneous Material Identification and Target Imaging with Commodity RFID Devices. IEEE Transactions on Mobile Computing, 2021, 20, 739-753.	5.8	14
65	Skeleton Extraction from Incomplete Boundaries in Sensor Networks Based on Distance Transform. , 2012, , .		13
66	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
67	Improving Application Placement for Cluster-Based Web Applications. IEEE Transactions on Network and Service Management, 2011, 8, 104-115.	4.9	12
68	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
69	Computation Bits Maximization in UAV-Enabled Mobile-Edge Computing System. IEEE Internet of Things Journal, 2022, 9, 10640-10651.	8.7	12
70	Coding Opportunity Aware Backbone Metrics for Broadcast in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1999-2009.	5.6	11
71	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
72	Adapting grid applications to safety using fault-tolerant methods: Design, implementation and evaluations. Future Generation Computer Systems, 2010, 26, 236-244.	7.5	10

#	ARTICLE	IF	CITATIONS
73	Seismic monitoring in underground mines: A case of mufulira mine in Zambia: Using wireless sensor networks for seismic monitoring. , 2010, , .		10
74	On Efficient Processing of Continuous Historical Top- k Queries in Sensor Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 2363-2367.	6.3	10
75	Connectivity-based and Boundary-Free Skeleton Extraction in Sensor Networks. , 2012, , .		10
76	Trajectory-based multi-dimensional outlier detection in wireless sensor networks using Hidden Markov Models. Wireless Networks, 2014, 20, 2409-2418.	3.0	10
77	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
78	Indoor Navigation With Virtual Graph Representation: Exploiting Peak Intensities of Unmodulated Luminaries. IEEE/ACM Transactions on Networking, 2019, 27, 187-200.	3.8	10
79	Privacy in VoIP Networks: Flow Analysis Attacks and Defense. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 621-633.	5.6	9
80	Connectivity-Based Boundary Extraction of Large-Scale 3D Sensor Networks: Algorithm and Applications. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 908-918.	5.6	9
81	FRESH: Push the Limit of D2D Communication Underlying Cellular Networks. IEEE Transactions on Mobile Computing, 2017, 16, 1630-1643.	5.8	9
82	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
83	Performance Analysis of Mixed PLC-FSO Dual-Hop Communication Systems. IEEE Internet of Things Journal, 2022, 9, 19307-19317.	8.7	9
84	Semantic-Aware Privacy-Preserving Online Location Trajectory Data Sharing. IEEE Transactions on Information Forensics and Security, 2022, 17, 2256-2271.	6.9	9
85	A unified framework for line-like skeleton extraction in 2D/3D sensor networks. , 2013, , .		8
86	SURF: A connectivity-based space filling curve construction algorithm in high genus 3D surface WSNs. , 2015, , .		8
87	MiFo: A novel edge network integration framework for fog computing. Peer-to-Peer Networking and Applications, 2019, 12, 269-279.	3.9	8
88	Exploring Human Mobility Patterns and Travel Behavior: A Focus on Private Cars. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 129-146.	3.8	8
89	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
90	Energy-Efficient Mobile Data Uploading from High-Speed Trains. Mobile Networks and Applications, 2012, 17, 143-151.	3.3	7

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91	Developing an optimized application hosting framework in Clouds. Journal of Computer and System Sciences, 2013, 79, 1214-1229.	1.2	7
92	SINUS: A scalable and distributed routing algorithm with guaranteed delivery for WSNs on high genus 3D surfaces. , 2013, , .		7
93	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
94	WiLocator: WiFi-Sensing Based Real-Time Bus Tracking and Arrival Time Prediction in Urban Environments. , 2016, , .		7
95	Throughput Maximization for Two-Way Buffer-Aided and Energy-Harvesting Enabled Multi-Relay Networks. IEEE Access, 2019, 7, 157972-157986.	4.2	7
96	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
97	Lifetime Optimization by Load-Balanced and Energy Efficient Tree in Wireless Sensor Networks. Mobile Networks and Applications, 2013, 18, 488-499.	3.3	6
98	Surface skeleton extraction and its application for data storage in 3D sensor networks. , 2014, , .		6
99	A Unified Framework for Line-Like Skeleton Extraction in 2D/3D Sensor Networks. IEEE Transactions on Computers, 2015, 64, 1323-1335.	3.4	6
100	OPS: Opportunistic pipeline scheduling in long-strip wireless sensor networks with unreliable links. Wireless Networks, 2015, 21, 1669-1682.	3.0	6
101	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
102	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
103	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
104	Toward scalable Web systems on multicore clusters: making use of virtual machines. Journal of Supercomputing, 2012, 61, 27-45.	3.6	5
105	Social Relationship Inference Over Private Vehicle Mobility Data. IEEE Transactions on Vehicular Technology, 2021, 70, 5221-5233.	6.3	5
106	Harmonizing Energy Efficiency and QoE for Brightness Scaling-based Mobile Video Streaming. , 2022, , .		5
107	Boundary-free skeleton extraction and its evaluation in sensor networks. Wireless Networks, 2015, 21, 269-280.	3.0	4
108	CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. IEEE Internet of Things Journal, 2021, 8, 14658-14671.	8.7	4

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109	Evidence in Hand: Passive Vibration Response-based Continuous User Authentication. , 2021, , .		4
110	EAPAC: An Enhanced Application Placement Framework for Data Centers. , 2011, , .		3
111	DualEMC: energy efficient mobile multimedia communication with cloud. Telecommunication Systems, 2015, 60, 85-94.	2.5	3
112	WiDE: WiFi Distance Based Group Profiling Via Machine Learning. IEEE Transactions on Mobile Computing, 2023, 22, 607-620.	5.8	3
113	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
114	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
115	When Deep Learning Meets Steganography: Protecting Inference Privacy in the Dark. , 2022, , .		3
116	Person Tracking by Detection Using Dual Visible-Infrared Cameras. IEEE Internet of Things Journal, 2022, 9, 23241-23251.	8.7	3
117	Wireless Sensor Networks in the Context of Zambia: A Developing Country. , 2010, , .		2
118	Network coding over connected dominating set: energy minimal broadcasting in wireless ad hoc networks. Wireless Networks, 2014, 20, 1023-1036.	3.0	2
119	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
120	vGuard: A Spatiotemporal Efficiency Supervision Method For Vaccine Production Based On Double-level Blockchain. , 2019, , .		2
121	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
122	PupilMeter: Modeling User Preference with Time-Series Features of Pupillary Response. , 2021, , .		1
123	Toward Predicting Stay Time for Private Car Users: A RNN-NALU Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 6007-6018.	6.3	1
124	Manipulating Supply Chain Demand Forecasting with Targeted Poisoning Attacks. IEEE Transactions on Industrial Informatics, 2022, , 1-1.	11.3	1
125	Efficient Distributed Positioning Algorithms for Wireless Sensor Networks. , 2009, , .		0
126	SNP: A 1-Manifold Skeleton-Based Navigation Protocol in 3D Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 2912-2924.	5.8	0

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127	Guest Editorial:Special Section on Endâ€œEdgeâ€œCloud Orchestrated Algorithms, Systems and Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 4788-4790.	11.3	0
128	Fast Retrieval of Large Entries With Incomplete Measurement Data. IEEE/ACM Transactions on Networking, 2022, , 1-15.	3.8	0