Zhi-Bo Wang

List of Publications by Year
in descending order

123 papers	4,005 citations	147566 31 h-index	174990 52 g-index
123 all docs	123 docs citations	123 times ranked	3405 citing authors

#	Article	IF	Citations
1	Beyond Inferring Class Representatives: User-Level Privacy Leakage From Federated Learning. , 2019, , .		384
2	Friendbook: A Semantic-Based Friend Recommendation System for Social Networks. IEEE Transactions on Mobile Computing, 2015, 14, 538-551.	3.9	194
3	Personalized Privacy-Preserving Task Allocation for Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2019, 18, 1330-1341.	3.9	173
4	The Security of Autonomous Driving: Threats, Defenses, and Future Directions. Proceedings of the IEEE, 2020, 108, 357-372.	16.4	140
5	Achieving k-Barrier Coverage in Hybrid Directional Sensor Networks. IEEE Transactions on Mobile Computing, 2014, 13, 1443-1455.	3.9	123
6	Enhancing Real-Time Delivery in Wireless Sensor Networks With Two-Hop Information. IEEE Transactions on Industrial Informatics, 2009, 5, 113-122.	7.2	115
7	Quality-Aware Sensing Coverage in Budget-Constrained Mobile Crowdsensing Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 7698-7707.	3.9	115
8	Privacy-Preserving Collaborative Deep Learning With Unreliable Participants. IEEE Transactions on Information Forensics and Security, 2020, 15, 1486-1500.	4.5	113
9	Analyzing User-Level Privacy Attack Against Federated Learning. IEEE Journal on Selected Areas in Communications, 2020, 38, 2430-2444.	9.7	113
10	Privacy-Preserving Crowd-Sourced Statistical Data Publishing with An Untrusted Server. IEEE Transactions on Mobile Computing, 2019, 18, 1356-1367.	3.9	89
11	Robust Gait Recognition by Integrating Inertial and RGBD Sensors. IEEE Transactions on Cybernetics, 2018, 48, 1136-1150.	6.2	77
12	EveDroid: Event-Aware Android Malware Detection Against Model Degrading for IoT Devices. IEEE Internet of Things Journal, 2019, 6, 6668-6680.	5.5	71
13	Achieving location error tolerant barrier coverage for wireless sensor networks. Computer Networks, 2017, 112, 314-328.	3.2	64
14	Narrowband Internet of Things Systems With Opportunistic D2D Communication. IEEE Internet of Things Journal, 2018, 5, 1474-1484.	5.5	62
15	A Traffic Adaptive Multi-Channel MAC Protocol with Dynamic Slot Allocation for WSNs. IEEE Transactions on Mobile Computing, 2016, 15, 1600-1613.	3.9	56
16	Cost-effective barrier coverage formation in heterogeneous wireless sensor networks. Ad Hoc Networks, 2017, 64, 65-79.	3.4	55
17	Messages behind the sound. , 2016, , .		53
18	Real-time and Spatio-temporal Crowd-sourced Social Network Data Publishing with Differential Privacy. IEEE Transactions on Dependable and Secure Computing, 2016, , 1-1.	3.7	51

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19	Ranking Station Importance With Human Mobility Patterns Using Subway Network Datasets. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2840-2852.	4.7	51
20	LVID: A Multimodal Biometrics Authentication System on Smartphones. IEEE Transactions on Information Forensics and Security, 2020, 15, 1572-1585.	4.5	50
21	Securing DV-Hop localization against wormhole attacks in wireless sensor networks. Pervasive and Mobile Computing, 2015, 16, 22-35.	2.1	49
22	Towards Personalized Privacy-Preserving Incentive for Truth Discovery in Mobile Crowdsensing Systems. IEEE Transactions on Mobile Computing, 2022, 21, 352-365.	3.9	48
23	Efficient and Reliable Missing Tag Identification for Large-Scale RFID Systems With Unknown Tags. IEEE Internet of Things Journal, 2017, 4, 736-748.	5.5	47
24	When Mobile Crowdsensing Meets Privacy. IEEE Communications Magazine, 2019, 57, 72-78.	4.9	47
25	PatternListener. , 2018, , .		45
26	Non-Interactive Privacy-Preserving Truth Discovery in Crowd Sensing Applications. , 2018, , .		43
27	OPAT: Optimized Allocation of Time-Dependent Tasks for Mobile Crowdsensing. IEEE Transactions on Industrial Informatics, 2022, 18, 2476-2485.	7.2	43
28	Deep Learning on Mobile and Embedded Devices. ACM Computing Surveys, 2021, 53, 1-37.	16.1	43
29	Towards Personalized Task-Oriented Worker Recruitment in Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2021, 20, 2080-2093.	3.9	42
30	Hidden Voice Commands: Attacks and Defenses on the VCS of Autonomous Driving Cars. IEEE Wireless Communications, 2019, 26, 128-133.	6.6	41
31	Pain-FL: Personalized Privacy-Preserving Incentive for Federated Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 3805-3820.	9.7	40
32	Heterogeneous incentive mechanism for time-sensitive and location-dependent crowdsensing networks with random arrivals. Computer Networks, 2018, 131, 96-109.	3.2	39
33	TOA Estimation of Chirp Signal in Dense Multipath Environment for Low-Cost Acoustic Ranging. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 355-367.	2.4	39
34	SocialRecruiter: Dynamic Incentive Mechanism for Mobile Crowdsourcing Worker Recruitment With Social Networks. IEEE Transactions on Mobile Computing, 2021, 20, 2055-2066.	3.9	35
35	Efficiently and Completely Identifying Missing Key Tags for Anonymous RFID Systems. IEEE Internet of Things Journal, 2018, 5, 2915-2926.	5.5	32
36	Rain Bar: Robust Application-Driven Visual Communication Using Color Barcodes. , 2015, , .		31

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37	Queue-MAC: A queue-length aware hybrid CSMA/TDMA MAC protocol for providing dynamic adaptation to traffic and duty-cycle variation in wireless sensor networks. , 2012, , .		30
38	A Secure Credit-Based Incentive Mechanism for Message Forwarding in Noncooperative DTNs. IEEE Transactions on Vehicular Technology, 2016, 65, 6377-6388.	3.9	30
39	On the Accuracy of Passive Source Localization Using Acoustic Sensor Array Networks. IEEE Sensors Journal, 2017, 17, 1795-1809.	2.4	30
40	Exploiting social influence for context-aware event recommendation in event-based social networks. , 2017, , .		30
41	Sparsest Random Sampling for Cluster-Based Compressive Data Gathering in Wireless Sensor Networks. IEEE Access, 2018, 6, 36383-36394.	2.6	30
42	Pay On-Demand: Dynamic Incentive and Task Selection for Location-Dependent Mobile Crowdsensing Systems. , 2018, , .		29
43	Nowhere to Hide: Efficiently Identifying Probabilistic Cloning Attacks in Large-Scale RFID Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 714-727.	4.5	29
44	Dolphin: Real-Time Hidden Acoustic Signal Capture with Smartphones. IEEE Transactions on Mobile Computing, 2019, 18, 560-573.	3.9	28
45	RMTS: A robust clock synchronization scheme for wireless sensor networks. Journal of Network and Computer Applications, 2019, 135, 1-10.	5.8	27
46	TSCD: A Novel Secure Localization Approach for Wireless Sensor Networks. , 2008, , .		26
47	Task-Bundling-Based Incentive for Location-Dependent Mobile Crowdsourcing. IEEE Communications Magazine, 2019, 57, 54-59.	4.9	26
48	A survey on barrier coverage with sensors. Frontiers of Computer Science, 2016, 10, 968-984.	1.6	25
49	Acoustic NLOS Identification Using Acoustic Channel Characteristics for Smartphone Indoor Localization. Sensors, 2017, 17, 727.	2.1	25
50	Charging While Moving: Deploying Wireless Chargers for Powering Wearable Devices. IEEE Transactions on Vehicular Technology, 2018, 67, 11575-11586.	3.9	25
51	Eclipse: Preserving Differential Location Privacy Against Long-Term Observation Attacks. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	25
52	VeriML: Enabling Integrity Assurances and Fair Payments for Machine Learning as a Service. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2524-2540.	4.0	25
53	A Secure Localization Approach against Wormhole Attacks Using Distance Consistency. Eurasip Journal on Wireless Communications and Networking, 2009, 2010, .	1.5	24
54	Hear Sign Language: A Real-time End-to-End Sign Language Recognition System. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	24

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55	On Achieving Asynchronous Energy-Efficient Neighbor Discovery for Mobile Sensor Networks. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 553-565.	3.2	23
56	Label-Based DV-Hop Localization Against Wormhole Attacks in Wireless Sensor Networks. , 2010, , .		22
57	Personalized location prediction for group travellers from spatialâ€“temporal trajectories. Future Generation Computer Systems, 2018, 83, 278-292.	4.9	22
58	Towards Personalized Privacy-Preserving Incentive for Truth Discovery in Crowdsourced Binary-Choice Question Answering. , 2020, , .		22
59	A Novel Mobility Management Scheme for Target Tracking in Cluster-Based Sensor Networks. Lecture Notes in Computer Science, 2010, , 172-186.	1.0	21
60	Enabling Online Robust Barcode-Based Visible Light Communication With Realtime Feedback. IEEE Transactions on Wireless Communications, 2018, 17, 8063-8076.	6.1	21
61	Towards Privacy-Driven Truthful Incentives for Mobile Crowdsensing Under Untrusted Platform. IEEE Transactions on Mobile Computing, 2023, 22, 1198-1212.	3.9	20
62	Conflicting-Set-Based Wormhole Attack Resistant Localization in Wireless Sensor Networks. Lecture Notes in Computer Science, 2009, , 296-309.	1.0	20
63	Invisible Adversarial Attack against Deep Neural Networks: An Adaptive Penalization Approach. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	3.7	19
64	Cluster-Enabled Cooperative Scheduling Based on Reinforcement Learning for High-Mobility Vehicular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 12664-12678.	3.9	19
65	Hybrid malware detection approach with feedback-directed machine learning. Science China Information Sciences, 2020, 63, 1.	2.7	19
66	MAC: Missing Tag Iceberg Queries for Multi-Category RFID Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 9947-9958.	3.9	18
67	Privacy-preserving task allocation for edge computing-based mobile crowdsensing. Computers and Electrical Engineering, 2022, 97, 107528.	3.0	17
68	A Novel Secure Localization Approach in Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	16
69	Probabilistic Detection of Missing Tags for Anonymous Multicategory RFID Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 11295-11305.	3.9	16
70	Towards Pattern-aware Privacy-preserving Real-time Data Collection. , 2020, , .		16
71	Stealing Your Android Patterns via Acoustic Signals. IEEE Transactions on Mobile Computing, 2021, 20, 1656-1671.	3.9	16
72	Towards Demand-Driven Dynamic Incentive for Mobile Crowdsensing Systems. IEEE Transactions on Wireless Communications, 2020, 19, 4907-4918.	6.1	15

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73	Privacy-Preserving Streaming Truth Discovery in Crowdsourcing With Differential Privacy. IEEE Transactions on Mobile Computing, 2022, 21, 3757-3772.	3.9	15
74	Towards Personalized Privacy-Preserving Truth Discovery Over Crowdsourced Data Streams. IEEE/ACM Transactions on Networking, 2022, 30, 327-340.	2.6	15
75	Fault Tolerant Line-Based Barrier Coverage Formation in Mobile Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-11.	1.3	15
76	Towards Online Privacy-preserving Computation Offloading in Mobile Edge Computing. , 2022, , .		15
77	Real time characteristics of Ethernet and its improvement. , 0, , .		14
78	PWEND: Proactive wakeup based energy-efficient neighbor discovery for mobile sensor networks. Ad Hoc Networks, 2020, 107, 102247.	3.4	14
79	Towards a Robust Deep Neural Network against Adversarial Texts: A Survey. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	14
80	Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatialâ€“Temporal Structure-Enhanced Approach. IEEE Internet of Things Journal, 2021, 8, 12339-12349.	5.5	13
81	Augmenting Encrypted Search: A Decentralized Service Realization with Enforced Execution. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	3.7	12
82	PRSS: A Prejudiced Random Sensing Strategy for Energy-Efficient Information Collection in the Internet of Things. IEEE Internet of Things Journal, 2019, 6, 2717-2728.	5.5	12
83	DAP: Efficient Detection Against Probabilistic Cloning Attacks in Anonymous RFID Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 345-355.	7.2	12
84	Sparse Signal Aloha: A Compressive Sensing-Based Method for Uncoordinated Multiple Access. IEEE Communications Letters, 2017, 21, 1301-1304.	2.5	11
85	SmartPI: Understanding Permission Implications of Android Apps from User Reviews. IEEE Transactions on Mobile Computing, 2020, 19, 2933-2945.	3.9	11
86	Impact of Link Unreliability and Asymmetry on the Quality of Connectivity in Large-scale Sensor Networks. Sensors, 2008, 8, 6674-6691.	2.1	10
87	Mobile Beacon Based Wormhole Attackers Detection and Positioning in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 910242.	1.3	10
88	Be Stable and Fair: Robust Data Scheduling for Vehicular Networks. IEEE Access, 2018, 6, 32839-32849.	2.6	10
89	Truth Discovery With Multi-Modal Data in Social Sensing. IEEE Transactions on Computers, 2021, 70, 1325-1337.	2.4	10
90	A Consistency-Based Secure Localization Scheme against Wormhole Attacks in WSNs. Lecture Notes in Computer Science, 2009, , 368-377.	1.0	9

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91	Real-time performance evaluation in hybrid industrial Ethernet networks. , 2010, , .		9
92	Secure localization against wormhole attacks using conflicting sets. , 2010, , .		9
93	pQueue-MAC: An Energy Efficient Hybrid MAC Protocol for Event-Driven Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 160167.	1.3	9
94	On providing wormholeâ€attackâ€resistant localization using conflicting sets. Wireless Communications and Mobile Computing, 2015, 15, 1865-1881.	0.8	8
95	An integrated DBP for streams with (m, k)-firm real-time guarantee. Journal of Zhejiang University: Science A, 2004, 5, 816-826.	1.3	7
96	A hybrid genetic algorithm to optimize device allocation in industrial Ethernet networks with real-time constraints. Journal of Zhejiang University: Science C, 2011, 12, 965-975.	0.7	7
97	Efficient 3-dimensional localization for RFID systems using jumping probe. Pervasive and Mobile Computing, 2017, 41, 300-318.	2.1	7
98	Trustworthy and Cost-Effective Cell Selection for Sparse Mobile Crowdsensing Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 6108-6121.	3.9	7
99	PrivStream: A privacy-preserving inference framework on IoT streaming data at the edge. Information Fusion, 2022, 80, 282-294.	11.7	7
100	Scalability and QoS guarantee for streams with (m,k)-firm deadline. Computer Standards and Interfaces, 2006, 28, 560-571.	3.8	6
101	Source Localization in Acoustic Sensor Networks via Constrained Least-Squares Optimization Using AOA and GROA Measurements. Sensors, 2018, 18, 937.	2.1	6
102	Spatiotemporal Correlation Based Fault-Tolerant Event Detection in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-14.	1.3	6
103	HierTrack: an energy-efficient cluster-based target tracking system forwireless sensor networks. Journal of Zhejiang University: Science C, 2013, 14, 395-406.	0.7	5
104	Towards fair and efficient task allocation in blockchain-based crowdsourcing. CCF Transactions on Networking, 2020, 3, 193-204.	1.0	5
105	Toward Efficient Compressed-Sensing-Based RFID Identification: A Sparsity-Controlled Approach. IEEE Internet of Things Journal, 2020, 7, 7714-7724.	5.5	5
106	Threats to Training: A Survey of Poisoning Attacks and Defenses on Machine Learning Systems. ACM Computing Surveys, 2023, 55, 1-36.	16.1	5
107	A New Method to Build the FF Schedule Time List. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 539-543.	0.4	4
108	Temporal Correlation Enhanced Sparse Activity Detection in MIMO Enabled Grant-Free NOMA. IEEE Transactions on Vehicular Technology, 2022, 71, 2887-2899.	3.9	4

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109	End-to-end delay analysis for networked systems. Frontiers of Information Technology and Electronic Engineering, 2015, 16, 732-743.	1.5	3
110	AirMouse: Turning a Pair of Glasses Into a Mouse in the Air. IEEE Internet of Things Journal, 2019, 6, 7473-7483.	5.5	3
111	Worst-case response time of aperiodc message in WorldFIP and its improvement in real-time capability. ISA Transactions, 2004, 43, 623-637.	3.1	2
112	Topology design of industrial ethernet networks using a multi-objective genetic algorithm. , 2011, , .		2
113	Approximate Cardinality Estimation (ACE) in large-scale Internet of Things deployments. Ad Hoc Networks, 2017, 66, 52-63.	3.4	2
114	Niffler: A Context-Aware and User-Independent Side-Channel Attack System for Password Inference. Wireless Communications and Mobile Computing, 2018, 2018, 1-19.	0.8	2
115	Simultaneous Sensor Placement and Scheduling for Fusion-Based Detection in RF-Powered Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 5595-5606.	5.5	2
116	SCRA: Structured Compressive Random Access for Efficient Information Collection in IoT. IEEE Internet of Things Journal, 2020, 7, 2356-2367.	5.5	2
117	Temporal Correlation Enhanced Multiuser Detection for Uplink Grant-Free NOMA. IEEE Transactions on Mobile Computing, 2023, 22, 2446-2457.	3.9	2
118	Approximate and Sublinear Spatial Queries for Large-Scale Vehicle Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 1561-1569.	3.9	1
119	An Energy Efficient Synchronization Protocol for Target Tracking in Wireless Sensor Array Networks. Sensors, 2019, 19, 1367.	2.1	1
120	An encoding and decoding scheme for long-distance ultrasonic localization. , 2020, , .		1
121	Towards Class-Balanced Privacy Preserving Heterogeneous Model Aggregation. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 2421-2432.	3.7	1
122	eQueue-MAC: Enhanced traffic adaptive hybrid MAC protocol with IEEE 802.15.4e features for industrial applications. , 2015, , .		0
123	IEEE Access Special Section Editorial: Toward Smart Cities With IoT Based on Crowdsensing. IEEE Access, 2021, 9, 118606-118609.	2.6	0