

# Wei Bao

## List of Publications by Year in descending order

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70  
papers

2,421  
citations

687363

13  
h-index

501196

28  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Learning over Wireless Networks: Optimization Model Design and Analysis. , 2019, , .		565
2	Ultra-Reliable Low Latency Cellular Networks: Use Cases, Challenges and Approaches. IEEE Communications Magazine, 2018, 56, 119-125.	6.1	229
3	Dynamic Adaptive DNN Surgery for Inference Acceleration on the Edge. , 2019, , .		201
4	Federated Learning Over Wireless Networks: Convergence Analysis and Resource Allocation. IEEE/ACM Transactions on Networking, 2021, 29, 398-409.	3.8	196
5	Stochastic Geometric Analysis of User Mobility in Heterogeneous Wireless Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2212-2225.	14.0	159
6	Optimizing User Association and Spectrum Allocation in HetNets: A Utility Perspective. IEEE Journal on Selected Areas in Communications, 2015, 33, 1025-1039.	14.0	143
7	sTube: An Architecture for IoT Communication Sharing. IEEE Communications Magazine, 2018, 56, 96-101.	6.1	140
8	Adaptive Energy-Aware Computation Offloading for Cloud of Things Systems. IEEE Access, 2017, 5, 23947-23957.	4.2	83
9	Follow Me Fog: Toward Seamless Handover Timing Schemes in a Fog Computing Environment. , 2017, 55, 72-78.		78
10	Joint Rate Control and Power Allocation for Non-Orthogonal Multiple Access Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2798-2811.	14.0	55
11	A dynamic tradeoff data processing framework for delay-sensitive applications in Cloud of Things systems. Journal of Parallel and Distributed Computing, 2018, 112, 53-66.	4.1	54
12	Managing Vertical Handovers in Millimeter Wave Heterogeneous Networks. IEEE Transactions on Communications, 2019, 67, 1629-1644.	7.8	40
13	A Model for Steady State Throughput of TCP CUBIC. , 2010, , .		38
14	Structured spectrum allocation and user association in heterogeneous cellular networks. , 2014, , .		37
15	Cost-effective processing for Delay-sensitive applications in Cloud of Things systems. , 2016, , .		27
16	Stochastic geometric analysis of handoffs in user-centric cooperative wireless networks. , 2016, , .		19
17	Optimizing Cluster Size Through Handoff Analysis in User-Centric Cooperative Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 766-778.	9.2	19
18	Xyreum: A High-Performance and Scalable Blockchain for IIoT Security and Privacy. , 2019, , .		18

#	ARTICLE	IF	CITATIONS
19	Handoff Rate Analysis in Heterogeneous Wireless Networks with Poisson and Poisson Cluster Patterns. , 2015, , .		17
20	Rate Maximization Through Structured Spectrum Allocation and User Association in Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2015, 63, 4510-4524.	7.8	16
21	Stochastic Analysis of Uplink Interference in Two-Tier Femtocell Networks: Open Versus Closed Access. IEEE Transactions on Wireless Communications, 2015, 14, 6200-6215.	9.2	16
22	Prune and Plant: Efficient Placement and Parallelism of Virtual Network Functions. IEEE Transactions on Computers, 2020, 69, 800-811.	3.4	14
23	Insensitivity of User Distribution in Multicell Networks under General Mobility and Session Patterns. IEEE Transactions on Wireless Communications, 2013, 12, 6244-6254.	9.2	13
24	Data Rate Utility Analysis for Uplink Two-Hop Internet of Things Networks. IEEE Internet of Things Journal, 2019, 6, 3601-3619.	8.7	13
25	SEE. , 2019, , .		13
26	Mobility handover optimization in millimeter wave heterogeneous networks. , 2017, , .		11
27	sFog. , 2018, , .		11
28	A Lightweight Security and Privacy-Enhancing Key Establishment for Internet of Things Applications. , 2018, , .		11
29	A Universally Composable Key Exchange Protocol for Advanced Metering Infrastructure in the Energy Internet. IEEE Transactions on Industrial Informatics, 2021, 17, 534-546.	11.3	11
30	Bitrate adaptation for mobile video streaming based on buffer and channel state. , 2015, , .		10
31	Uplink Interference Analysis for Two-Tier Cellular Networks With Diverse Users Under Random Spatial Patterns. IEEE Transactions on Wireless Communications, 2015, 14, 1252-1265.	9.2	10
32	Top-k Partial Label Machine. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6775-6788.	11.3	10
33	Filling Two Needs With One Deed: Combo Pricing Plans for Computing-Intensive Multimedia Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1518-1533.	14.0	9
34	Q-Flink: A QoS-Aware Controller for Apache Flink. , 2020, , .		9
35	Understanding the benefits of open access in Femtocell networks. , 2013, , .		8
36	Radio resource allocation in heterogeneous wireless networks: A spatial-temporal perspective. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
37	Generalized Large Margin $\ell_1$ -SVM for Partial Label Learning. IEEE Transactions on Multimedia, 2022, 24, 1055-1066.	7.2	8
38	Federated Learning with Proximal Stochastic Variance Reduced Gradient Algorithms. , 2020, , .		8
39	Handoff rate analysis in heterogeneous cellular networks. , 2014, , .		7
40	Learning Early Exit for Deep Neural Network Inference on Mobile Devices through Multi-Armed Bandits. , 2021, , .		7
41	DONE: Distributed Approximate Newton-type Method for Federated Edge Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	7
42	DeepSave. , 2019, , .		6
43	Uplink interference analysis for two-tier cellular networks with diverse users under random spatial patterns. , 2013, , .		5
44	Near-optimal spectrum allocation in multi-tier cellular networks with random inelastic traffic. , 2014, , .		5
45	Cost-Effective Processing in Fog-Integrated Internet of Things Ecosystems. , 2017, , .		5
46	Towards secure energy internet communication scheme: An identity-based key bootstrapping protocol supporting unicast and multicast. , 2017, , .		5
47	sTube+. ACM Transactions on Sensor Networks, 2018, 14, 1-29.	3.6	5
48	Multi-cell coordination via disjoint clustering in dense millimeter wave cellular networks. , 2017, , .		4
49	CyRA: A Real-Time Risk-Based Security Assessment Framework for Cyber Attacks Prevention in Industrial Control Systems. , 2019, , .		4
50	eDeepSave: Saving DNN Inference using Early Exit During Handovers in Mobile Edge Environment. ACM Transactions on Sensor Networks, 2021, 17, 1-28.	3.6	4
51	Discriminative Metric Learning for Partial Label Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4428-4439.	11.3	4
52	TCP VON: Joint congestion control and online network coding for wireless networks. , 2012, , .		3
53	IoT Communication Sharing: Scenarios, Algorithms and Implementation. , 2018, , .		3
54	Universally Composable Key Bootstrapping and Secure Communication Protocols for the Energy Internet. IEEE Transactions on Information Forensics and Security, 2019, 14, 2113-2127.	6.9	3

#	ARTICLE	IF	CITATIONS
55	SOAR: Smart Online Aggregated Reservation for Mobile Edge Computing Brokerage Services. IEEE Transactions on Mobile Computing, 2023, 22, 527-540.	5.8	3
56	On Performance of Multi-Timeslots Network Coding (MTNC) in Wireless Relay Networks. , 2009, , .		2
57	On the insensitivity of user distribution in multicell networks under general mobility and session patterns. , 2013, , .		2
58	Ins and Outs. , 2018, , .		2
59	User Mobility Analysis in Disjoint-Clustered Cooperative Wireless Networks. , 2018, , .		2
60	Fast Multi-label Learning. , 2021, , .		2
61	Outage Probability Analysis of Linear Block Network Coding (LBNC) in Wireless Relay Networks. , 2009, , .		1
62	sTube+. , 2017, , .		1
63	Accelerating on-device DNN inference during service outage through scheduling early exit. Computer Communications, 2020, 162, 69-82.	5.1	1
64	FastSlowMo: Federated Learning With Combined Worker and Aggregator Momenta. IEEE Transactions on Artificial Intelligence, 2022, , 1-10.	4.7	1
65	XOR in hexagram: On the performance of cooperative network coding in polling-based wireless networks. , 2011, , .		0
66	Real-Time Stream Data Processing at Scale. , 2019, , .		0
67	New Parallel Algorithms for All Pairwise Computation on Large HPC Clusters. , 2019, , .		0
68	Enhancing disk input output performance in consolidated virtualized cloud platforms using a randomized approximation scheme. Concurrency Computation Practice and Experience, 0, , e6247.	2.2	0
69	GauPro: An Accuracy-Improved Indoor Positioning System Based on Beacon Probabilistic Fingerprint. , 2021, , .		0
70	Dynamic path learning in decision trees using contextual bandits. World Wide Web, 0, , 1.	4.0	0