

Jie Xu

List of Publications by Year in descending order

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94
papers

3,606
citations

236612

25
h-index

182168

51
g-index

94
all docs

94
docs citations

94
times ranked

3354
citing authors

#	ARTICLE	IF	CITATIONS
1	When Attackers Meet AI: Learning-Empowered Attacks in Cooperative Spectrum Sensing. IEEE Transactions on Mobile Computing, 2022, 21, 1892-1908.	3.9	33
2	Bandwidth Allocation for Multiple Federated Learning Services in Wireless Edge Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2534-2546.	6.1	25
3	Automated Ensemble for Deep Learning Inference on Edge Computing Platforms. IEEE Internet of Things Journal, 2022, 9, 4202-4213.	5.5	5
4	Learning the Optimal Partition for Collaborative DNN Training With Privacy Requirements. IEEE Internet of Things Journal, 2022, 9, 11168-11178.	5.5	3
5	Improving QoE of Deep Neural Network Inference on Edge Devices: A Bandit Approach. IEEE Internet of Things Journal, 2022, 9, 21409-21420.	5.5	0
6	Context-Aware Online Client Selection for Hierarchical Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4353-4367.	4.0	17
7	Collaborative Service Placement for Edge Computing in Dense Small Cell Networks. IEEE Transactions on Mobile Computing, 2021, 20, 377-390.	3.9	109
8	How to Test the Randomness From the Wireless Channel for Security?. IEEE Transactions on Information Forensics and Security, 2021, 16, 3753-3766.	4.5	3
9	Seek Common While Shelving Differences: Orchestrating Deep Neural Networks for Edge Service Provisioning. IEEE Journal on Selected Areas in Communications, 2021, 39, 251-264.	9.7	6
10	Client Selection and Bandwidth Allocation in Wireless Federated Learning Networks: A Long-Term Perspective. IEEE Transactions on Wireless Communications, 2021, 20, 1188-1200.	6.1	192
11	Hybrid Beamforming for Massive MIMO Over-the-Air Computation. IEEE Transactions on Communications, 2021, 69, 2737-2751.	4.9	32
12	Resource Rationing for Wireless Federated Learning: Concept, Benefits, and Challenges. IEEE Communications Magazine, 2021, 59, 82-87.	4.9	21
13	Personalized Education in the Artificial Intelligence Era: What to Expect Next. IEEE Signal Processing Magazine, 2021, 38, 37-50.	4.6	38
14	Adaptive Deep Neural Network Ensemble for Inference-as-a-Service on Edge Computing Platforms. , 2021, , .		0
15	Collaborative Content Placement Among Wireless Edge Caching Stations With Time-to-Live Cache. IEEE Transactions on Multimedia, 2020, 22, 432-444.	5.2	17
16	Learning Optimal Sniffer Channel Assignment for Small Cell Cognitive Radio Networks. , 2020, , .		4
17	Real-Time Resource Allocation for Wireless Powered Multiuser Mobile Edge Computing With Energy and Task Causality. IEEE Transactions on Communications, 2020, 68, 7140-7155.	4.9	42
18	Risk-Aware Edge Computation Offloading Using Bayesian Stackelberg Game. IEEE Transactions on Network and Service Management, 2020, 17, 1000-1012.	3.2	24

#	ARTICLE	IF	CITATIONS
19	Quantile Context-Aware Social IoT Service Big Data Recommendation With D2D Communication. IEEE Internet of Things Journal, 2020, 7, 5533-5548.	5.5	18
20	Human-Behavior and QoE-Aware Dynamic Channel Allocation for 5G Networks: A Latent Contextual Bandit Learning Approach. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 436-451.	4.9	9
21	Differential Security Game in Heterogeneous Device-to-Device Offloading Network Under Epidemic Risks. IEEE Transactions on Network Science and Engineering, 2020, 7, 1852-1861.	4.1	14
22	Adversarial machine learning based partial-model attack in IoT. , 2020, , .		31
23	Budget-Constrained Edge Service Provisioning With Demand Estimation via Bandit Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 2364-2376.	9.7	31
24	Active Learning for Streaming Data in A Contextual Bandit Framework. , 2019, , .		0
25	Bayesian Stackelberg Game for Risk-aware Edge Computation Offloading. , 2019, , .		3
26	Toward Optimal Adaptive Online Shortest Path Routing With Acceleration Under Jamming Attack. IEEE/ACM Transactions on Networking, 2019, 27, 1815-1829.	2.6	11
27	Video Big Data Retrieval Over Media Cloud: A Context-Aware Online Learning Approach. IEEE Transactions on Multimedia, 2019, 21, 1762-1777.	5.2	23
28	Security-Aware Incentives Design for Mobile Device-to-Device Offloading. Advances in Information Security, 2019, , 85-114.	0.9	1
29	Task Replication for Vehicular Cloud: Contextual Combinatorial Bandit with Delayed Feedback. , 2019, , .		41
30	Privacy-Preserving MEC-Enabled Contextual Online Learning via SDN for Service Selection in IoT. , 2019, , .		2
31	Preventing Malware Propagation in D2D Offloading Networks with Strategic Mobile Users. , 2019, , .		1
32	Privacy-Aware Edge Computing Based on Adaptive DNN Partitioning. , 2019, , .		19
33	An Energy Efficient Framework for UAV-Assisted Millimeter Wave 5G Heterogeneous Cellular Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 37-44.	3.5	72
34	Differentially-Private and Trustworthy Online Social Multimedia Big Data Retrieval in Edge Computing. IEEE Transactions on Multimedia, 2019, 21, 539-554.	5.2	37
35	Dynamic Edge Caching with Popularity Drifting. , 2018, , .		2
36	Joint Service Caching and Task Offloading for Mobile Edge Computing in Dense Networks. , 2018, , .		384

#	ARTICLE	IF	CITATIONS
37	Spatio-temporal Edge Service Placement: A Bandit Learning Approach. IEEE Transactions on Wireless Communications, 2018, 17, 8388-8401.	6.1	71
38	Energy Efficiency Analysis of UAV-Assisted mmWave HetNets. , 2018, , .		11
39	Computation Peer Offloading for Energy-Constrained Mobile Edge Computing in Small-Cell Networks. IEEE/ACM Transactions on Networking, 2018, 26, 1619-1632.	2.6	267
40	Course recommendation of MOOC with big data support: A contextual online learning approach. , 2018, , .		16
41	Designing Security-Aware Incentives for Computation Offloading via Device-to-Device Communication. IEEE Transactions on Wireless Communications, 2018, 17, 6053-6066.	6.1	33
42	Multiagent Systems: Learning, Strategic Behavior, Cooperation, and Network Formation. , 2018, , 699-721.		0
43	Online Geographical Load Balancing for Energy-Harvesting Mobile Edge Computing. , 2018, , .		33
44	DeepN-JPEG. , 2018, , .		65
45	Adaptive Fog Configuration for the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 4656-4664.	7.2	63
46	A Machine Learning Approach for Tracking and Predicting Student Performance in Degree Programs. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 742-753.	7.3	137
47	EMM: Energy-Aware Mobility Management for Mobile Edge Computing in Ultra Dense Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2637-2646.	9.7	330
48	Energy efficient mobile edge computing in dense cellular networks. , 2017, , .		45
49	Socially trusted collaborative edge computing in ultra dense networks. , 2017, , .		49
50	Online Learning for Offloading and Autoscaling in Energy Harvesting Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 361-373.	4.9	289
51	E^{2M^2} : Energy efficient mobility management in dense small cells with mobile edge computing. , 2017, , .		10
52	Social Intimacy Based IoT Services Mining of Massive Data. , 2017, , .		5
53	Computation Peer Offloading in Mobile Edge Computing with Energy Budgets. , 2017, , .		25
54	Online Learning for Offloading and Autoscaling in Renewable-Powered Mobile Edge Computing. , 2016, , .		59

#	ARTICLE	IF	CITATIONS
55	DARC: Timely Classification with Randomly Delayed Features. , 2016, , .		0
56	Trend-Aware Video Caching Through Online Learning. IEEE Transactions on Multimedia, 2016, 18, 2503-2516.	5.2	81
57	Personalized Course Sequence Recommendations. IEEE Transactions on Signal Processing, 2016, 64, 5340-5352.	3.2	60
58	Popularity-driven content caching. , 2016, , .		111
59	Personalized Active Learning for Activity Classification Using Wireless Wearable Sensors. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 865-876.	7.3	19
60	Bits Learning: User-Adjustable Privacy Versus Accuracy in Internet Traffic Classification. IEEE Communications Letters, 2016, 20, 704-707.	2.5	7
61	To Relay or Not to Relay: Learning Device-to-Device Relaying Strategies in Cellular Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1569-1585.	3.9	53
62	Predicting Grades. IEEE Transactions on Signal Processing, 2016, 64, 959-972.	3.2	98
63	Using Contextual Learning to Improve Diagnostic Accuracy: Application in Breast Cancer Screening. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 902-914.	3.9	24
64	Incentive-compatible demand-side management for smart grids based on review strategies. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.0	4
65	Silence is Gold: Strategic Interference Mitigation Using Tokens in Heterogeneous Small Cell Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 1097-1111.	9.7	8
66	Timely video popularity forecasting based on social networks. , 2015, , .		8
67	Caring Analytics for Adults With Special Needs. IEEE Design and Test, 2015, 32, 35-44.	1.1	7
68	Personalized Grade Prediction: A Data Mining Approach. , 2015, , .		21
69	Distributed Multi-Agent Online Learning Based on Global Feedback. IEEE Transactions on Signal Processing, 2015, 63, 2225-2238.	3.2	21
70	Mining the Situation: Spatiotemporal Traffic Prediction With Big Data. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 702-715.	7.3	53
71	Forecasting Popularity of Videos Using Social Media. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 330-343.	7.3	46
72	Efficient Working and Shirking in Information Sharing Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 651-662.	9.7	5

#	ARTICLE	IF	CITATIONS
73	Network evolution with incomplete information and learning. , 2014, , .		1
74	Silence is gold: Strategic small cell interference management using tokens. , 2014, , .		3
75	Context-driven online learning for activity classification in wireless health. , 2014, , .		1
76	Context-Aware Online Spatiotemporal Traffic Prediction. , 2014, , .		5
77	Incentivizing information sharing in networks. , 2014, , .		2
78	Non-Stationary Resource Allocation Policies for Delay-Constrained Video Streaming: Application to Video over Internet-of-Things-Enabled Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 782-794.	9.7	43
79	Sharing in Networks of Strategic Agents. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 717-731.	7.3	5
80	Cooperative Multi-Agent Learning and Coordination for Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 464-477.	9.7	12
81	Incentive design for heterogeneous user-generated content networks. Performance Evaluation Review, 2014, 41, 34-37.	0.4	1
82	Efficient online exchange via fiat money. Economic Theory, 2013, 54, 211-248.	0.5	14
83	Token System Design for Autonomic Wireless Relay Networks. IEEE Transactions on Communications, 2013, 61, 2924-2935.	4.9	20
84	A Design Methodology for Distributed Adaptive Stream Mining Systems. Procedia Computer Science, 2013, 18, 2482-2491.	1.2	2
85	Winning the Lottery: Learning Perfect Coordination With Minimal Feedback. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 846-857.	7.3	12
86	Interference-Aware Relay Selection Scheme for Two-Hop Relay Networks With Multiple Source-Destination Pairs. IEEE Transactions on Vehicular Technology, 2013, 62, 2327-2338.	3.9	35
87	Learning optimal classifier chains for real-time big data mining. , 2013, , .		2
88	Learning perfect coordination with minimal feedback in wireless multi-access communications. , 2013, , .		0
89	Learning relaying strategies in cellular D2D networks with token-based incentives. , 2013, , .		20
90	Rating systems for enhanced cyber-security investments. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
91	Social Norm Design for Information Exchange Systems with Limited Observations. IEEE Journal on Selected Areas in Communications, 2012, 30, 2126-2135.	9.7	9
92	Sustaining cooperation in social exchange networks with incomplete global information. , 2012, , .		0
93	Token-Based Incentive Protocol Design for Online Exchange Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 248-258.	0.2	1
94	Interference-aware relay selection for multiple source-destination cooperative networks. , 2009, , .		13