Yan Zhang

List of Publications by Citations

178 papers	13,931 citations	60 h-index	116 g-index
186 ext. papers	18,594 ext. citations	7.3 avg, IF	7.67 L-index

#	Paper	IF	Citations
178	. *IEEE Internet of Things Journal*, **2018**, 5, 450-465	10.7	1009
177	Enabling Localized Peer-to-Peer Electricity Trading Among Plug-in Hybrid Electric Vehicles Using Consortium Blockchains. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 3154-3164	11.9	593
176	A Survey on Mobile Edge Networks: Convergence of Computing, Caching and Communications. *IEEE Access*, **2017**, 5, 6757-6779	3.5	541
175	. *IEEE Transactions on Smart Grid*, **2013**, 4, 120-132	10.7	507
174	Energy-Efficient Offloading for Mobile Edge Computing in 5G Heterogeneous Networks. *IEEE Access*, **2016**, 4, 5896-5907	3.5	491
173	UAV Communications for 5G and Beyond: Recent Advances and Future Trends. *IEEE Internet of Things Journal*, **2019**, 6, 2241-2263	10.7	483
172	Mobile-Edge Computing for Vehicular Networks: A Promising Network Paradigm with Predictive Off-Loading. *IEEE Vehicular Technology Magazine*, **2017**, 12, 36-44	9.9	403
171	Blockchain for Internet of Things: A Survey. *IEEE Internet of Things Journal*, **2019**, 6, 8076-8094	10.7	396
170	Blockchain for Secure and Efficient Data Sharing in Vehicular Edge Computing and Networks. *IEEE Internet of Things Journal*, **2019**, 6, 4660-4670	10.7	316
169	**2011**, 49, 44-52		300
168	. *IEEE Network*, **2012**, 26, 6-13	11.4	294
167	Blockchain and Federated Learning for Privacy-Preserved Data Sharing in Industrial IoT. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 4177-4186	11.9	282
166	Computation Offloading and Resource Allocation For Cloud Assisted Mobile Edge Computing in Vehicular Networks. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 7944-7956	6.8	267
165	. *IEEE Transactions on Smart Grid*, **2014**, 5, 722-731	10.7	247
164	Blockchain-Enabled Security in Electric Vehicles Cloud and Edge Computing. *IEEE Network*, **2018**, 32, 78-83	11.4	226
163	Intelligent Edge Computing for IoT-Based Energy Management in Smart Cities. *IEEE Network*, **2019**, 33, 111-117	11.4	213
162	Energy big data: A survey. *IEEE Access*, **2016**, 4, 3844-3861	3.5	183

161	Blockchain and Deep Reinforcement Learning Empowered Intelligent 5G Beyond. *IEEE Network*, **2019**, 33, 10-17	11.4	176
160	Consortium Blockchain for Secure Energy Trading in Industrial Internet of Things. *IEEE Transactions on Industrial Informatics*, **2017**, 1-1	11.9	173
159	Permissioned Blockchain and Edge Computing Empowered Privacy-Preserving Smart Grid Networks. *IEEE Internet of Things Journal*, **2019**, 6, 7992-8004	10.7	163
158	Deep Reinforcement Learning for Offloading and Resource Allocation in Vehicle Edge Computing and Networks. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 11158-11168	6.8	161
157	Blockchain Empowered Asynchronous Federated Learning for Secure Data Sharing in Internet of Vehicles. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 4298-4311	6.8	160
156	Computation Resource Allocation and Task Assignment Optimization in Vehicular Fog Computing: A Contract-Matching Approach. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 3113-3125	6.8	158
155	. *IEEE Transactions on Smart Grid*, **2016**, 7, 189-199	10.7	156
154	Joint Load Balancing and Offloading in Vehicular Edge Computing and Networks. *IEEE Internet of Things Journal*, **2019**, 6, 4377-4387	10.7	155
153	Joint Computation Offloading and User Association in Multi-Task Mobile Edge Computing. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 12313-12325	6.8	147
152	Edge Intelligence and Blockchain Empowered 5G Beyond for the Industrial Internet of Things. *IEEE Network*, **2019**, 33, 12-19	11.4	145
151	Deep Learning Empowered Task Offloading for Mobile Edge Computing in Urban Informatics. *IEEE Internet of Things Journal*, **2019**, 6, 7635-7647	10.7	144
150	Social Big-Data-Based Content Dissemination in Internet of Vehicles. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 768-777	11.9	144
149	Cooperative Content Caching in 5G Networks with Mobile Edge Computing. *IEEE Wireless Communications*, **2018**, 25, 80-87	13.4	138
148	Mobile Edge Computing and Networking for Green and Low-Latency Internet of Things **2018**, 56, 39-45		137
147	. *IEEE Access*, **2017**, 5, 25408-25420	3.5	129
146	Artificial Intelligence Empowered Edge Computing and Caching for Internet of Vehicles. *IEEE Wireless Communications*, **2019**, 26, 12-18	13.4	127
145	. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 2627-2637	6.1	124
144	Multitier Fog Computing With Large-Scale IoT Data Analytics for Smart Cities. *IEEE Internet of Things Journal*, **2018**, 5, 677-686	10.7	122

143	TPGF: geographic routing in wireless multimedia sensor networks. *Telecommunication Systems*, **2010**, 44, 79-95	2.3	116
142	Performance Analysis of Connectivity Probability and Connectivity-Aware MAC Protocol Design for Platoon-Based VANETs. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 5596-5609	6.8	111
141	Differentially Private Asynchronous Federated Learning for Mobile Edge Computing in Urban Informatics. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2134-2143	11.9	111
140	Dependable Content Distribution in D2D-Based Cooperative Vehicular Networks: A Big Data-Integrated Coalition Game Approach. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 953-964	6.1	109
139	Wireless Big Data Computing in Smart Grid. *IEEE Wireless Communications*, **2017**, 24, 58-64	13.4	108
138	Deep Reinforcement Learning for Cooperative Content Caching in Vehicular Edge Computing and Networks. *IEEE Internet of Things Journal*, **2020**, 7, 247-257	10.7	105
137	Mobile big data fault-tolerant processing for ehealth networks. *IEEE Network*, **2016**, 30, 36-42	11.4	103
136	Energy-Efficient Admission of Delay-Sensitive Tasks for Mobile Edge Computing. *IEEE Transactions on Communications*, **2018**, 66, 2603-2616	6.9	99
135	Exploring Mobile Edge Computing for 5G-Enabled Software Defined Vehicular Networks. *IEEE Wireless Communications*, **2017**, 24, 55-63	13.4	97
134	Vehicular Edge Computing and Networking: A Survey. *Mobile Networks and Applications*, **2021**, 26, 1145-1168	3.6	97
133	Deep Reinforcement Learning for Resource Protection and Real-Time Detection in IoT Environment. *IEEE Internet of Things Journal*, **2020**, 7, 6392-6401	10.7	90
132	Deep Reinforcement Learning and Permissioned Blockchain for Content Caching in Vehicular Edge Computing and Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 4312-4324	6.8	87
131	Robust Big Data Analytics for Electricity Price Forecasting in the Smart Grid. *IEEE Transactions on Big Data*, **2019**, 5, 34-45	3.2	87
130	Energy Peer-to-Peer Trading in Virtual Microgrids in Smart Grids: A Game-Theoretic Approach. *IEEE Transactions on Smart Grid*, **2020**, 11, 1264-1275	10.7	87
129	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 7844-7856	6.8	86
128	. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 1314-1345	37.1	83
127	Artificial Intelligence Inspired Transmission Scheduling in Cognitive Vehicular Communications and Networks. *IEEE Internet of Things Journal*, **2019**, 6, 1987-1997	10.7	81
126	Fair Energy Scheduling for Vehicle-to-Grid Networks Using Adaptive Dynamic Programming. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 1697-707	10.3	75

125	Cooperative and Distributed Computation Offloading for Blockchain-Empowered Industrial Internet of Things. *IEEE Internet of Things Journal*, **2019**, 6, 8433-8446	10.7	75
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123	Green Energy Scheduling for Demand Side Management in the Smart Grid. *IEEE Transactions on Green Communications and Networking*, **2018**, 2, 596-611	4	69
122	Delay constrained offloading for Mobile Edge Computing in cloud-enabled vehicular networks **2016** ,		67
121	Physical-Layer Security in Space Information Networks: A Survey. *IEEE Internet of Things Journal*, **2020**, 7, 33-52	10.7	65
120	Low-Latency Federated Learning and Blockchain for Edge Association in Digital Twin Empowered 6G Networks. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 5098-5107	11.9	65
119	Blockchain and Computational Intelligence Inspired Incentive-Compatible Demand Response in Internet of Electric Vehicles. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2019**, 3, 205-216	4.1	62
118	Age of Information Aware Radio Resource Management in Vehicular Networks: A Proactive Deep Reinforcement Learning Perspective. *IEEE Transactions on Wireless Communications*, **2020**, 19, 2268-2281	9.6	58
117	Incentive-Driven Energy Trading in the Smart Grid. *IEEE Access*, **2016**, 4, 1243-1257	3.5	55
116	Reducing Offloading Latency for Digital Twin Edge Networks in 6G. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 12240-12251	6.8	52
115	Digital Twin Networks: A Survey. *IEEE Internet of Things Journal*, **2021**, 8, 13789-13804	10.7	52
114	Energy Efficient Beamforming in MISO Heterogeneous Cellular Networks With Wireless Information and Power Transfer. *IEEE Journal on Selected Areas in Communications*, **2016**, 34, 954-968	14.2	51
113	Deep and Embedded Learning Approach for Traffic Flow Prediction in Urban Informatics. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 3927-3939	6.1	50
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111	Differential Privacy Preserving of Training Model in Wireless Big Data with Edge Computing. *IEEE Transactions on Big Data*, **2020**, 6, 283-295	3.2	48
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104	Software Defined Networking for Flexible and Green Energy Internet **2016**, 54, 68-75		44
103	A Hierarchical Blockchain-Enabled Federated Learning Algorithm for Knowledge Sharing in Internet of Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3975-3986	6.1	44
102	Secure Transmission for Heterogeneous Cellular Networks With Wireless Information and Power Transfer. *IEEE Systems Journal*, **2018**, 12, 3755-3766	4.3	43
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100	NetTopo: A framework of simulation and visualization for wireless sensor networks. *Ad Hoc Networks*, **2011**, 9, 799-820	4.8	43
99	Local Cyber-Physical Attack for Masking Line Outage and Topology Attack in Smart Grid. *IEEE Transactions on Smart Grid*, **2019**, 10, 4577-4588	10.7	43
98	Jamming and Eavesdropping Defense in Green Cyber-Physical Transportation Systems Using a Stackelberg Game. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 4232-4242	11.9	39
97	Adaptive Federated Learning and Digital Twin for Industrial Internet of Things. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 5605-5614	11.9	39
96	Blockchain Empowered Cooperative Authentication With Data Traceability in Vehicular Edge Computing. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 4221-4232	6.8	36
95	Cooperative Offloading and Resource Management for UAV-Enabled Mobile Edge Computing in Power IoT System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 12229-12239	6.8	34
94	Computational Intelligence Inspired Data Delivery for Vehicle-to-Roadside Communications. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 12038-12048	6.8	34
93	QoE-Aware Power Management in Vehicle-to-Grid Networks: A Matching-Theoretic Approach. *IEEE Transactions on Smart Grid*, **2018**, 9, 2468-2477	10.7	33
92	Adaptive Digital Twin and Multiagent Deep Reinforcement Learning for Vehicular Edge Computing and Networks. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	33
91	Optimal Charging Schemes for Electric Vehicles in Smart Grid: A Contract Theoretic Approach. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 3046-3058	6.1	33
90	Software Defined Networking With Pseudonym Systems for Secure Vehicular Clouds. *IEEE Access*, **2016**, 4, 3522-3534	3.5	32

89	Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *IEEE Transactions on Smart Grid*, **2020**, 11, 2552-2562	10.7	32
88	Proof-of-Reputation Based-Consortium Blockchain for Trust Resource Sharing in Internet of Vehicles. *IEEE Access*, **2019**, 7, 175744-175757	3.5	30
87	Blockchain Empowered Wireless Power Transfer for Green and Secure Internet of Things. *IEEE Network*, **2019**, 33, 164-171	11.4	28
86	A Differential Privacy-Based Query Model for Sustainable Fog Data Centers. *IEEE Transactions on Sustainable Computing*, **2019**, 4, 145-155	3.5	27
85	ADMM-Based Distributed Auction Mechanism for Energy Hub Scheduling in Smart Buildings. *IEEE Access*, **2018**, 6, 45635-45645	3.5	27
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83	Blockchain and Federated Learning for Collaborative Intrusion Detection in Vehicular Edge Computing. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6073-6084	6.8	26
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79	Detecting Mixing Services via Mining Bitcoin Transaction Network With Hybrid Motifs. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	25
78	Deep Reinforcement Learning for Internet of Things: A Comprehensive Survey. *IEEE Communications Surveys and Tutorials*, **2021**, 23, 1659-1692	37.1	25
77	On Stability and Robustness of Demand Response in V2G Mobile Energy Networks. *IEEE Transactions on Smart Grid*, **2018**, 9, 3203-3212	10.7	24
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75	Deep Reinforcement Learning for Social-Aware Edge Computing and Caching in Urban Informatics. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 5467-5477	11.9	24
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72	Secure Authentication in Cloud Big Data with Hierarchical Attribute Authorization Structure. *IEEE Transactions on Big Data*, **2017**, 1-1	3.2	22

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68	Reinforcement-Learning- and Belief-Learning-Based Double Auction Mechanism for Edge Computing Resource Allocation. *IEEE Internet of Things Journal*, **2020**, 7, 5976-5985	10.7	19
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65	Transmitting and Gathering Streaming Data in Wireless Multimedia Sensor Networks Within Expected Network Lifetime. *Mobile Networks and Applications*, **2008**, 13, 306	2.9	16
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63	Towards Large-Scale and Privacy-Preserving Contact Tracing in COVID-19 Pandemic: A Blockchain Perspective.. *IEEE Transactions on Network Science and Engineering*, **2022**, 9, 282-298	4.9	15
62	Online Learning and Optimization for Computation Offloading in D2D Edge Computing and Networks. *Mobile Networks and Applications*, **2019**, 1	2.9	15
61	Contract-theoretic Approach for Delay Constrained Offloading in Vehicular Edge Computing Networks. *Mobile Networks and Applications*, **2019**, 24, 1003-1014	2.9	15
60	Energy-Efficient Spectrum Discovery for Cognitive Radio Green Networks. *Mobile Networks and Applications*, **2012**, 17, 64-74	2.9	14
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58	Energy Trading with Demand Response in a Community-based P2P Energy Market **2019**,		14
57	A dynamic channel assignment scheme for voice/data integration in GPRS networks. *Computer Communications*, **2006**, 29, 1163-1173	5.1	13
56	. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	13
55	Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	12
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52	A Searchable and Verifiable Data Protection Scheme for Scholarly Big Data. *IEEE Transactions on Emerging Topics in Computing*, **2021**, 9, 216-225	4.1	11
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50	Placement and Routing Optimization for Automated Inspection With Unmanned Aerial Vehicles: A Study in Offshore Wind Farm. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 3032-3043	11.9	11
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48	Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	11
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44	. *IEEE Computational Intelligence Magazine*, **2019**, 14, 42-51	5.6	9
43	Electric Signature Detection and Analysis for Power Equipment Failure Monitoring in Smart Grid. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 3739-3750	11.9	9
42	Digital Twin Empowered Content Caching in Social-Aware Vehicular Edge Networks. *IEEE Transactions on Computational Social Systems*, **2021**, 1-13	4.5	9
41	Deep Reinforcement Learning for Edge Caching and Content Delivery in Internet of Vehicles **2019**,		8
40	Location-aware private service discovery in pervasive computing environment. *Information Sciences*, **2013**, 230, 78-93	7.7	8
39	CyberChain: Cybertwin Empowered Blockchain for Lightweight and Privacy-preserving Authentication in Internet of Vehicles. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	8
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36	Cooperative Connected Autonomous Vehicles (CAV): Research, Applications and Challenges **2019**,		8

35	Demand-Response Games for Peer-to-Peer Energy Trading With the Hyperledger Blockchain. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	8
34	Joint Optimization of Power, Packet Forwarding and Reliability in MIMO Wireless Sensor Networks. *Mobile Networks and Applications*, **2011**, 16, 760-770	2.9	7
33	Federated Learning Empowered End-Edge-Cloud Cooperation for 5G HetNet Security. *IEEE Network*, **2021**, 35, 88-94	11.4	7
32	Content-Centric Group User Authentication for Secure Social Networks. *IEEE Transactions on Emerging Topics in Computing*, **2020**, 8, 833-844	4.1	7
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29	. *IEEE Transactions on Multimedia*, **2019**, 21, 591-602	6.6	6
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22	Symbol Error Rate Analysis and Power Allocation for Adaptive Relay Selection Schemes. *Wireless Personal Communications*, **2011**, 56, 457-467	1.9	4
21	Cooperative Federated Learning and Model Update Verification in Blockchain Empowered Digital Twin Edge Networks. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	4
20	Transfer Learning for Distributed Intelligence in Aerial Edge Networks. *IEEE Wireless Communications*, **2021**, 28, 74-81	13.4	4
19	Distributed Incentives and Digital Twin for Resource Allocation in air-assisted Internet of Vehicles **2021**,		4
18	Deep Reinforcement Learning for Edge Computing and Resource Allocation in 5G Beyond **2019**,		4

17	Permissioned Blockchain and Deep Reinforcement Learning for Content Caching in Vehicular Edge Computing and Networks **2019**,		4
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13	Authentication traffics modeling and analysis in next generation wireless networks. *Wireless Communications and Mobile Computing*, **2008**, 8, 615-625	1.9	2
12	Effects of false data injection attacks on a local P2P energy trading market with prosumers **2020**,		2
11	Optimal Energy Trading with Demand Responses in Cloud Computing Enabled Virtual Power Plant in Smart Grids. *IEEE Transactions on Cloud Computing*, **2021**, 1-1	3.3	2
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9	Guest EditorialIntroduction to the Special Section on Blockchain for Vehicles and Intelligent Communications. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 3998-4000	6.8	1
8	Detecting false data injection attacks in peer to peer energy trading using machine learning. *IEEE Transactions on Dependable and Secure Computing*, **2021**, 1-1	3.9	1
7	Selective Federated Learning for Mobile Edge Intelligence		0
6	Transient Stability Assessment Based on Gated Graph Neural Network with Imbalanced Data in Internet of Energy. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	0
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2	Joint Power Control and Computation Offloading for Energy-efficient Mobile Edge Networks. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	
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