Zhaolong Ning

List of Publications by Year in descending order

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53794 56724 7,736 152 45 83 citations h-index g-index papers 153 153 153 6243 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Energy-Latency Tradeoff for Energy-Aware Offloading in Mobile Edge Computing Networks. IEEE Internet of Things Journal, 2018, 5, 2633-2645.	8.7	426
2	A Cooperative Partial Computation Offloading Scheme for Mobile Edge Computing Enabled Internet of Things. IEEE Internet of Things Journal, 2019, 6, 4804-4814.	8.7	372
3	Edge Computing in Industrial Internet of Things: Architecture, Advances and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2462-2488.	39.4	355
4	Offloading in Internet of Vehicles: A Fog-Enabled Real-Time Traffic Management System. IEEE Transactions on Industrial Informatics, 2018, 14, 4568-4578.	11.3	313
5	Vehicular Fog Computing: Enabling Real-Time Traffic Management for Smart Cities. IEEE Wireless Communications, 2019, 26, 87-93.	9.0	304
6	Vehicular Social Networks: Enabling Smart Mobility. , 2017, 55, 16-55.		283
7	A Cooperative Quality-Aware Service Access System for Social Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 2506-2517.	8.7	241
8	Intelligent Edge Computing in Internet of Vehicles: A Joint Computation Offloading and Caching Solution. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2212-2225.	8.0	211
9	Deep Reinforcement Learning for Vehicular Edge Computing. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-24.	4.5	202
10	Mobile Edge Computing Enabled 5G Health Monitoring for Internet of Medical Things: A Decentralized Game Theoretic Approach. IEEE Journal on Selected Areas in Communications, 2021, 39, 463-478.	14.0	202
11	Mobile Edge Computing-Enabled Internet of Vehicles: Toward Energy-Efficient Scheduling. IEEE Network, 2019, 33, 198-205.	6.9	200
12	A City-Wide Real-Time Traffic Management System: Enabling Crowdsensing in Social Internet of Vehicles. IEEE Communications Magazine, 2018, 56, 19-25.	6.1	171
13	Joint Computing and Caching in 5G-Envisioned Internet of Vehicles: A Deep Reinforcement Learning-Based Traffic Control System. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5201-5212.	8.0	164
14	Green and Sustainable Cloud of Things: Enabling Collaborative Edge Computing. IEEE Communications Magazine, 2019, 57, 72-78.	6.1	131
15	Mobility Dataset Generation for Vehicular Social Networks Based on Floating Car Data. IEEE Transactions on Vehicular Technology, 2018, 67, 3874-3886.	6.3	130
16	Wireless Power Transfer and Energy Harvesting: Current Status and Future Prospects. IEEE Wireless Communications, 2019, 26, 163-169.	9.0	129
17	Deep Reinforcement Learning for Intelligent Internet of Vehicles: An Energy-Efficient Computational Offloading Scheme. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 1060-1072.	7.9	124
18	Future Communications and Energy Management in the Internet of Vehicles: Toward Intelligent Energy-Harvesting. IEEE Wireless Communications, 2019, 26, 87-93.	9.0	120

#	Article	IF	Citations
19	When Deep Reinforcement Learning Meets 5G-Enabled Vehicular Networks: A Distributed Offloading Framework for Traffic Big Data. IEEE Transactions on Industrial Informatics, 2020, 16, 1352-1361.	11.3	120
20	Privacy-Preserving Content Dissemination for Vehicular Social Networks: Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2019, 21, 1314-1345.	39.4	114
21	Joint Resource Allocation for Latency-Sensitive Services Over Mobile Edge Computing Networks With Caching. IEEE Internet of Things Journal, 2019, 6, 4283-4294.	8.7	110
22	Partial Computation Offloading and Adaptive Task Scheduling for 5G-Enabled Vehicular Networks. IEEE Transactions on Mobile Computing, 2022, 21, 1319-1333.	5.8	108
23	CAIS: A Copy Adjustable Incentive Scheme in Community-Based Socially Aware Networking. IEEE Transactions on Vehicular Technology, 2017, 66, 3406-3419.	6.3	106
24	Vehicular Social Networks: A survey. Pervasive and Mobile Computing, 2018, 43, 96-113.	3.3	106
25	Imitation Learning Enabled Task Scheduling for Online Vehicular Edge Computing. IEEE Transactions on Mobile Computing, 2022, 21, 598-611.	5.8	104
26	A Social-Aware Group Formation Framework for Information Diffusion in Narrowband Internet of Things. IEEE Internet of Things Journal, 2018, 5, 1527-1538.	8.7	101
27	Joint Computation Offloading, Power Allocation, and Channel Assignment for 5G-Enabled Traffic Management Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 3058-3067.	11.3	100
28	Social-Oriented Adaptive Transmission in Opportunistic Internet of Smartphones. IEEE Transactions on Industrial Informatics, 2017, 13, 810-820.	11.3	92
29	Blockchain-Enabled Intelligent Transportation Systems: A Distributed Crowdsensing Framework. IEEE Transactions on Mobile Computing, 2022, 21, 4201-4217.	5.8	90
30	Multi-Agent Imitation Learning for Pervasive Edge Computing: A Decentralized Computation Offloading Algorithm. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 411-425.	5.6	86
31	Distributed and Dynamic Service Placement in Pervasive Edge Computing Networks. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1277-1292.	5.6	85
32	Mobile Edge Computing-Enabled 5G Vehicular Networks: Toward the Integration of Communication and Computing. IEEE Vehicular Technology Magazine, 2019, 14, 54-61.	3.4	80
33	Data-Driven Intrusion Detection for Intelligent Internet of Vehicles: A Deep Convolutional Neural Network-Based Method. IEEE Transactions on Network Science and Engineering, 2020, 7, 2219-2230.	6.4	79
34	Deep Learning Based Autonomous Vehicle Super Resolution DOA Estimation for Safety Driving. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4301-4315.	8.0	77
35	5G-Enabled UAV-to-Community Offloading: Joint Trajectory Design and Task Scheduling. IEEE Journal on Selected Areas in Communications, 2021, 39, 3306-3320.	14.0	70
36	Green Survivable Collaborative Edge Computing in Smart Cities. IEEE Transactions on Industrial Informatics, 2018, 14, 1594-1605.	11.3	67

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37	SDN-Enabled Social-Aware Clustering in 5G-VANET Systems. IEEE Access, 2018, 6, 28213-28224.	4.2	67
38	Optimizing Content Dissemination for Real-Time Traffic Management in Large-Scale Internet of Vehicle Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 1093-1105.	6.3	67
39	Local Electricity Storage for Blockchain-Based Energy Trading in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2019, 15, 3610-3619.	11.3	65
40	Bibliographic Analysis of Nature Based on Twitter and Facebook Altmetrics Data. PLoS ONE, 2016, 11, e0165997.	2.5	65
41	Deep Learning in Edge of Vehicles: Exploring Trirelationship for Data Transmission. IEEE Transactions on Industrial Informatics, 2019, 15, 5737-5746.	11.3	64
42	Big Trajectory Data: A Survey of Applications and Services. IEEE Access, 2018, 6, 58295-58306.	4.2	59
43	Novel Framework of Risk-Aware Virtual Network Embedding in Optical Data Center Networks. IEEE Systems Journal, 2018, 12, 2473-2482.	4.6	55
44	Intelligent resource allocation in mobile blockchain for privacy and security transactions: a deep reinforcement learning based approach. Science China Information Sciences, 2021, 64, 1.	4.3	54
45	A Privacy-Preserving Message Forwarding Framework for Opportunistic Cloud of Things. IEEE Internet of Things Journal, 2018, 5, 5281-5295.	8.7	53
46	Edge Computing Based Healthcare Systems: Enabling Decentralized Health Monitoring in Internet of Medical Things. IEEE Network, 2020, 34, 254-261.	6.9	49
47	Quick Answer for Big Data in Sharing Economy: Innovative Computer Architecture Design Facilitating Optimal Service-Demand Matching. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1494-1506.	5.2	46
48	An Overview on Evaluating and Predicting Scholarly Article Impact. Information (Switzerland), 2017, 8, 73.	2.9	43
49	A Reinforcement Learning-Based Network Traffic Prediction Mechanism in Intelligent Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 2169-2180.	11.3	42
50	Private-Blockchain-Based Industrial IoT for Material and Product Tracking in Smart Manufacturing. IEEE Network, 2020, 34, 91-97.	6.9	41
51	Minimizing the Age-of-Critical-Information: An Imitation Learning-Based Scheduling Approach Under Partial Observations. IEEE Transactions on Mobile Computing, 2022, 21, 3225-3238.	5.8	41
52	Temporal, Functional and Spatial Big Data Computing Framework for Large-Scale Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 369-379.	4.6	40
53	Identifying Anomalous Citations for Objective Evaluation of Scholarly Article Impact. PLoS ONE, 2016, 11, e0162364.	2.5	39
54	Social acquaintance based routing in Vehicular Social Networks. Future Generation Computer Systems, 2019, 93, 751-760.	7. 5	38

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55	Joint scheduling and routing algorithm with load balancing in wireless mesh network. Computers and Electrical Engineering, 2012, 38, 533-550.	4.8	37
56	A Survey on Human-Centric Communications in Non-Cooperative Wireless Relay Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 914-944.	39.4	36
57	Link stability estimation based on link connectivity changes in mobile ad-hoc networks. Journal of Network and Computer Applications, 2012, 35, 2051-2058.	9.1	33
58	A Real-Time Defect Detection Method for Digital Signal Processing of Industrial Inspection Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 3450-3459.	11.3	32
59	Online Learning for Distributed Computation Offloading in Wireless Powered Mobile Edge Computing Networks. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1841-1855.	5.6	32
60	Privacy-Preserved Electronic Medical Record Exchanging and Sharing: A Blockchain-Based Smart Healthcare System. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1917-1927.	6.3	31
61	Integration of scheduling and network coding in multi-rate wireless mesh networks: Optimization models and algorithms. Ad Hoc Networks, 2016, 36, 386-397.	5.5	30
62	The Role of Positive and Negative Citations in Scientific Evaluation. IEEE Access, 2017, 5, 17607-17617.	4.2	27
63	Secure Crowdsensing in 5G Internet of Vehicles: When Deep Reinforcement Learning Meets Blockchain. IEEE Consumer Electronics Magazine, 2021, 10, 72-81.	2.3	27
64	Geo-Social Distance-Based Data Dissemination for Socially Aware Networking. IEEE Access, 2016, 4, 1444-1453.	4.2	26
65	Intrusion Detection in Green Internet of Things: A Deep Deterministic Policy Gradient-Based Algorithm. IEEE Transactions on Green Communications and Networking, 2021, 5, 778-788.	5.5	26
66	Cooperative Mechanism for Energy Transportation and Storage in Internet of Energy. IEEE Access, 2017, 5, 1363-1375.	4.2	24
67	An improved Apriori–based algorithm for friends recommendation in microblog. International Journal of Communication Systems, 2018, 31, e3453.	2.5	24
68	On-Chip Hardware Accelerator for Automated Diagnosis Through Human–Machine Interactions in Healthcare Delivery. IEEE Transactions on Automation Science and Engineering, 2019, 16, 206-217.	5.2	22
69	Network Traffic Prediction in Industrial Internet of Things Backbone Networks: A Multitask Learning Mechanism. IEEE Transactions on Industrial Informatics, 2021, 17, 7123-7132.	11.3	22
70	NOMA-based energy-efficient task scheduling in vehicular edge computing networks: A self-imitation learning-based approach. China Communications, 2020, 17, 1-11.	3.2	21
71	Markov-based vertical handoff decision algorithms in heterogeneous wireless networks. Computers and Electrical Engineering, 2014, 40, 456-472.	4.8	20
72	Blockchain-Enabled Privacy-Preserving Access Control for Data Publishing and Sharing in the Internet of Medical Things. IEEE Internet of Things Journal, 2022, 9, 8091-8104.	8.7	20

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73	Who are the Rising Stars in Academia?. , 2016, , .		18
74	A channel estimation based opportunistic scheduling scheme in wireless bidirectional networks. Journal of Network and Computer Applications, 2014, 39, 61-69.	9.1	17
75	Emergency warning messages dissemination in vehicular social networks: A trust based scheme. Vehicular Communications, 2020, 22, 100199.	4.0	17
76	A Novel Hybrid Routing Forwarding Algorithm in SDN Enabled Wireless Mesh Networks. , 2015, , .		16
77	Social-Oriented Resource Management in Cloud-Based Mobile Networks. IEEE Cloud Computing, 2016, 3, 24-31.	3.9	16
78	An Interference Coordination-Based Distributed Resource Allocation Scheme in Heterogeneous Cellular Networks. IEEE Access, 2017, 5, 2152-2162.	4.2	16
79	Location-Recommendation-Aware Virtual Network Embedding in Energy-Efficient Optical-Wireless Hybrid Networks Supporting 5G Models. IEEE Access, 2016, 4, 3065-3075.	4.2	15
80	Rising Star Forecasting Based on Social Network Analysis. IEEE Access, 2017, 5, 24229-24238.	4.2	15
81	A Demand-Supply Oriented Taxi Recommendation System for Vehicular Social Networks. IEEE Access, 2018, 6, 41529-41538.	4.2	15
82	Service Degradability Supported by Forecasting System in Optical Data Center Networks. IEEE Systems Journal, 2019, 13, 1514-1525.	4.6	15
83	Exploring time factors in measuring the scientific impact of scholars. Scientometrics, 2017, 112, 1301-1321.	3.0	14
84	Potential Threats and Possible Countermeasures for Photonic Network-on-Chip. IEEE Communications Magazine, 2020, 58, 48-53.	6.1	14
85	An Adaptive Social Spammer Detection Model With Semi-Supervised Broad Learning. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4622-4635.	5.7	14
86	Joint power control and spectrum access in cognitive radio networks. Journal of Network and Computer Applications, 2014, 41, 379-388.	9.1	13
87	Energyâ€aware cooperative and distributed channel estimation schemes for wireless sensor networks. International Journal of Communication Systems, 2017, 30, e3074.	2.5	13
88	Energy-Efficient Survivable Grooming in Software-Defined Elastic Optical Networks. IEEE Access, 2017, , 1-1.	4.2	13
89	Team Recognition in Big Scholarly Data: Exploring Collaboration Intensity. , 2017, , .		13
90	Integration of Image Feature and Word Relevance: Toward Automatic Image Annotation in Cyber-Physical-Social Systems. IEEE Access, 2018, 6, 44190-44198.	4.2	12

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91	Online Scheduling and Route Planning for Shared Buses in Urban Traffic Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3430-3444.	8.0	12
92	Blockchain-Enabled Electrical Fault Inspection and Secure Transmission in 5G Smart Grids. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 82-96.	10.8	12
93	A Collaborative Filtering Recommendation-Based Scheme for WLANs With Differentiated Access Service. IEEE Systems Journal, 2018, 12, 1004-1014.	4.6	11
94	A QoS-Oriented High-Efficiency Resource Allocation Scheme in Wireless Multimedia Sensor Networks. IEEE Sensors Journal, 2017, 17, 1538-1548.	4.7	10
95	WDM-MDM Silicon-Based Optical Switching for Data Center Networks. , 2019, , .		10
96	A collective filtering based content transmission scheme in edge of vehicles. Information Sciences, 2020, 506, 161-173.	6.9	10
97	Online Energy Scheduling Policies in Energy Harvesting Enabled D2D Communications. IEEE Transactions on Industrial Informatics, 2021, 17, 5678-5687.	11.3	10
98	Deployment of survivable fiber-wireless access for converged optical and data center networks. Optical Switching and Networking, 2014, 14, 226-232.	2.0	9
99	A novel adaptive spectrum allocation scheme for multi-channel multi-radio wireless mesh networks. Journal of Network and Computer Applications, 2015, 56, 19-27.	9.1	9
100	AlRank: Author Impact Ranking through Positions in Collaboration Networks. Complexity, 2018, 2018, 1-16.	1.6	9
101	SDN-based Optimizing Solutions for Multipath Data Transmission Supporting Consortium Blockchains. , 2018, , .		9
102	A Hybrid Mechanism for Innovation Diffusion in Social Networks. IEEE Access, 2016, 4, 5408-5416.	4.2	8
103	A loadâ€balancing and codingâ€aware multicast protocol for mobile <i>ad hoc</i> networks. International Journal of Communication Systems, 2016, 29, 2457-2470.	2.5	8
104	A novel scheduling algorithm for physical-layer network coding under Markov model in wireless multi-hop network. Computers and Electrical Engineering, 2013, 39, 1625-1636.	4.8	7
105	A secure routing scheme based on social network analysis in wireless mesh networks. Science China Information Sciences, $2016, 59, 1$.	4.3	7
106	Design and performance investigation of LDPC-coded upstream transmission systems in IM/DD OFDM-PONs. Optics Communications, 2016, 380, 154-160.	2.1	7
107	Anomaly Detection Based on Spatio-Temporal and Sparse Features of Network Traffic in VANETs. , 2019,		7
108	An efficient data delivery and scheduling scheme for smart and sustainable cities. Journal of Cleaner Production, 2019, 215, 497-513.	9.3	7

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109	Social-oriented adaptive transmission in wireless ad hoc networks. , 2014, , .		6
110	PNCOIRank., 2016,,.		6
111	Toward Efficient 5G Transmission: SER Performance Analysis for Asynchronous Physical-Layer Network Coding. IEEE Access, 2016, 4, 5083-5097.	4.2	6
112	Design for Architecture and Router of 3D Free-Space Optical Network-on-Chip. , 2018, , .		6
113	Multi-Feature Representation Based COVID-19 Risk Stage Evaluation With Transfer Learning. IEEE Transactions on Network Science and Engineering, 2022, 9, 1359-1375.	6.4	6
114	Subcarrier allocation in multi-hop orthogonal frequency division multiple access wireless networks. Computers and Electrical Engineering, 2014, 40, 599-611.	4.8	5
115	Interference-aware spectrum sensing mechanisms in cognitive radio networks. Computers and Electrical Engineering, 2015, 42, 193-206.	4.8	5
116	Joint Encoding and Grouping Multiple Node Pairs for Physical-Layer Network Coding With Low-Complexity Algorithm. IEEE Transactions on Vehicular Technology, 2017, 66, 9275-9286.	6.3	5
117	Distributed Orchestration of Service Function Chains for Edge Intelligence in the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 6244-6254.	11.3	5
118	A Privacy-Reserved Approach for Message Forwarding in Opportunistic Networks. , 2017, , .		4
119	A cloud-supported cps approach to control decision of process manufacturing: 3D ONoC., 2017,,.		4
120	Heterogeneous visual features integration for image recognition optimization in internet of things. Journal of Computational Science, 2018, 28, 466-475.	2.9	4
121	Virtual Network Embedding Supporting User Mobility in 5G Metro/Access Networks., 2019,		4
122	COMICS: a community property-based triangle motif clustering scheme. PeerJ Computer Science, 2019, 5, e180.	4.5	4
123	Guest Editorial Special Issue on Collaborative Edge Computing for Social Internet of Things Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 59-63.	4.4	4
124	A Dynamic Cooperative Monitor Node Selection Algorithm in Wireless Mesh Networks., 2015,,.		3
125	A Novel QoS-Based QoE Evaluation Method for Streaming Video Service. , 2017, , .		3
126	Crowdsourcing for Mobile Networks and IoT. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1,2	3

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127	Deep Reinforcement Learning Based Traffic Offloading Scheme for Vehicular Networks., 2019,,.		3
128	Corrections to "A Cooperative Quality-Aware Service Access System for Social Internet of Vehicles― IEEE Internet of Things Journal, 2020, 7, 6663-6663.	8.7	3
129	Internet of UAVs Based Remote Health Monitoring: An Online eHealth System. IEEE Wireless Communications, 2021, 28, 15-21.	9.0	3
130	Dynamic Cell Range Expansion-based interference coordination scheme in next generation wireless networks. China Communications, 2014, 11, 98-104.	3.2	2
131	Design of Dynamic Traffic Grooming Algorithm in Software-Defined Wireless Mesh Networks. , 2015, , .		2
132	A topology and applicationâ€aware relay path allocation scheme in multipath transport system based on applicationâ€level relay. International Journal of Communication Systems, 2017, 30, e3245.	2.5	2
133	A Hierarchical Routing Algorithm for Satellite Networks Considering FSO Communication. , 2017, , .		2
134	Joint User Pairing and Resource Allocation for SWIPT-Enabled Cooperative D2D Communications. , 2021, , .		2
135	Distributed Task Scheduling for Wireless Powered Mobile Edge Computing: A Federated-Learning-Enabled Framework. IEEE Network, 2021, 35, 27-33.	6.9	2
136	Key technology and solution to improve throughput in wireless mesh networks. , 2010, , .		1
137	Collaboration Prediction in Heterogeneous Information Networks. , 2015, , .		1
138	Hierarchic Topology Management by Decision Model and Smart Agents in Space Information Networks. , 2015, , .		1
139	Joint relay antenna and precoding selection for <i>K</i> à€user MIMO Y channels with physicalâ€layer network coding. International Journal of Communication Systems, 2017, 30, e3071.	2.5	1
140	Green Virtual Network Embedding for Collaborative Edge Computing in Environment-Friendly Optical-Wireless Networks. , 2017, , .		1
141	Detection of Four-Node Motif in Complex Networks. Studies in Computational Intelligence, 2018, , 453-462.	0.9	1
142	Secure Beamforming Design for MISO SWIPT Systems: An Indirectly Optimized Approach., 2019,,.		1
143	Channel estimation based on outage probability in analog network coding. , 2012, , .		0
144	Power allocation for two-way relay channel in wireless bidirectional networks. , 2013, , .		0

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145	A Trust-Based User Assignment Scheme in Ad Hoc Social Networks. , 2015, , .		0
146	Sustainable Strategy for Recycling Edge Devices in Internet of Everything Networks. , 2017, , .		0
147	CITS 2017 general chairs' message. , 2017, , .		O
148	Appropriate Service Degradability for Virtualized Inter-Data-Center Optical Networks. , 2018, , .		0
149	Robust Caching Control in Crowdsourced Content-Centric Mobile Networking. IEEE Access, 2018, 6, 59811-59821.	4.2	O
150	Combinative hypergraph learning in subspace for cross-modal ranking. Multimedia Tools and Applications, 2018, 77, 25959-25982.	3.9	0
151	Traffic Measurement Optimization Based on Reinforcement Learning in Large-Scale IP Backbone Networks. , 2019, , .		0
152	Editorial: Special Section on Pervasive Edge Computing for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 5010-5011.	11.3	0