## Canhui Chen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Efficient Multi-User Computation Offloading for Mobile-Edge Cloud Computing. IEEE/ACM Transactions on Networking, 2016, 24, 2795-2808.	3.8	2,088
2	Edge Intelligence: Paving the Last Mile of Artificial Intelligence With Edge Computing. Proceedings of the IEEE, 2019, 107, 1738-1762.	21.3	1,144
3	Convergence of Edge Computing and Deep Learning: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 869-904.	39.4	776
4	Decentralized Computation Offloading Game for Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 974-983.	5.6	739
5	In-Edge AI: Intelligentizing Mobile Edge Computing, Caching and Communication by Federated Learning. IEEE Network, 2019, 33, 156-165.	6.9	645
6	Edge AI: On-Demand Accelerating Deep Neural Network Inference via Edge Computing. IEEE Transactions on Wireless Communications, 2020, 19, 447-457.	9.2	405
7	Follow Me at the Edge: Mobility-Aware Dynamic Service Placement for Mobile Edge Computing. IEEE Journal on Selected Areas in Communications, 2018, 36, 2333-2345.	14.0	325
8	D2D Fogging: An Energy-Efficient and Incentive-Aware Task Offloading Framework via Network-assisted D2D Collaboration. IEEE Journal on Selected Areas in Communications, 2016, 34, 3887-3901.	14.0	312
9	Edge Intelligence. , 2018, , .		248
10	Exploiting Social Ties for Cooperative D2D Communications: A Mobile Social Networking Case. IEEE/ACM Transactions on Networking, 2015, 23, 1471-1484.	3.8	210
11	HFEL: Joint Edge Association and Resource Allocation for Cost-Efficient Hierarchical Federated Edge Learning. IEEE Transactions on Wireless Communications, 2020, 19, 6535-6548.	9.2	207
12	Personalized Federated Learning for Intelligent IoT Applications: A Cloud-Edge Based Framework. IEEE Open Journal of the Computer Society, 2020, 1, 35-44.	7.8	200
13	Exploiting Massive D2D Collaboration for Energy-Efficient Mobile Edge Computing. IEEE Wireless Communications, 2017, 24, 64-71.	9.0	192
14	ThriftyEdge: Resource-Efficient Edge Computing for Intelligent IoT Applications. IEEE Network, 2018, 32, 61-65.	6.9	163
15	When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. IEEE Internet of Things Journal, 2021, 8, 2238-2251.	8.7	162
16	MEETS: Maximal Energy Efficient Task Scheduling in Homogeneous Fog Networks. IEEE Internet of Things Journal, 2018, 5, 4076-4087.	8.7	144
17	Adaptive User-managed Service Placement for Mobile Edge Computing: An Online Learning Approach. , 2019, , .		122
18	FedHome: Cloud-Edge Based Personalized Federated Learning for In-Home Health Monitoring. IEEE Transactions on Mobile Computing, 2022, 21, 2818-2832.	5.8	112

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19	Efficient Resource Allocation for On-Demand Mobile-Edge Cloud Computing. IEEE Transactions on Vehicular Technology, 2018, 67, 8769-8780.	6.3	103
20	Social trust and social reciprocity based cooperative D2D communications. , 2013, , .		96
21	Boomerang: On-Demand Cooperative Deep Neural Network Inference for Edge Intelligence on the Industrial Internet of Things. IEEE Network, 2019, 33, 96-103.	6.9	93
22	Cloudlet Placement and Task Allocation in Mobile Edge Computing. IEEE Internet of Things Journal, 2019, 6, 5853-5863.	8.7	87
23	Social-Aware Video Multicast Based on Device-to-Device Communications. IEEE Transactions on Mobile Computing, 2016, 15, 1528-1539.	5.8	86
24	CoEdge: Cooperative DNN Inference With Adaptive Workload Partitioning Over Heterogeneous Edge Devices. IEEE/ACM Transactions on Networking, 2021, 29, 595-608.	3.8	85
25	When D2D meets cloud: Hybrid mobile task offloadings in fog computing. , 2017, , .		81
26	Online Resource Allocation, Content Placement and Request Routing for Cost-Efficient Edge Caching in Cloud Radio Access Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1751-1767.	14.0	78
27	Toward Secure Data Sharing for the IoV: A Quality-Driven Incentive Mechanism With On-Chain and Off-Chain Guarantees. IEEE Internet of Things Journal, 2020, 7, 1625-1640.	8.7	78
28	Delay-Aware Virtual Network Function Placement and Routing in Edge Clouds. IEEE Transactions on Mobile Computing, 2021, 20, 445-459.	5.8	77
29	Online Orchestration of Cross-Edge Service Function Chaining for Cost-Efficient Edge Computing. IEEE Journal on Selected Areas in Communications, 2019, 37, 1866-1880.	14.0	76
30	<italic>Chimera</italic> : An Energy-Efficient and Deadline-Aware Hybrid Edge Computing Framework for Vehicular Crowdsensing Applications. IEEE Internet of Things Journal, 2019, 6, 84-99.	8.7	73
31	Database-Assisted Distributed Spectrum Sharing. IEEE Journal on Selected Areas in Communications, 2013, 31, 2349-2361.	14.0	70
32	MoodExplorer. , 2018, 1, 1-30.		68
33	Intelligent Edge: Leveraging Deep Imitation Learning for Mobile Edge Computation Offloading. IEEE Wireless Communications, 2020, 27, 92-99.	9.0	64
34	Crowdlet: Optimal worker recruitment for self-organized mobile crowdsourcing. , 2016, , .		63
35	Towards Cost Minimization With Renewable Energy Sharing in Cooperative Residential Communities. IEEE Access, 2017, 5, 11688-11699.	4.2	60
36	Social-Aware Incentivized Caching for D2D Communications. IEEE Access, 2016, 4, 7585-7593.	4.2	59

#	Article	IF	CITATIONS
37	EC-SAGINs: Edge-Computing-Enhanced Space–Air–Ground-Integrated Networks for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5742-5754.	8.7	59
38	Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. IEEE Internet of Things Journal, 2021, 8, 9511-9522.	8.7	53
39	Optimal Pricing Mechanism for Data Market in Blockchain-Enhanced Internet of Things. IEEE Internet of Things Journal, 2019, 6, 9748-9761.	8.7	52
40	Learning Driven Computation Offloading for Asymmetrically Informed Edge Computing. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1802-1815.	5.6	51
41	Joint Computation Offloading and Coin Loaning for Blockchain-Empowered Mobile-Edge Computing. IEEE Internet of Things Journal, 2019, 6, 9934-9950.	8.7	46
42	CE-IoT: Cost-Effective Cloud-Edge Resource Provisioning for Heterogeneous IoT Applications. IEEE Internet of Things Journal, 2020, 7, 8600-8614.	8.7	43
43	Distributed Spectrum Access with Spatial Reuse. IEEE Journal on Selected Areas in Communications, 2013, 31, 593-603.	14.0	42
44	Quality of Service Games for Spectrum Sharing. IEEE Journal on Selected Areas in Communications, 2014, 32, 589-600.	14.0	42
45	Exploiting Social Tie Structure for Cooperative Wireless Networking: A Social Group Utility Maximization Framework. IEEE/ACM Transactions on Networking, 2016, 24, 3593-3606.	3.8	40
46	Optimal privacy-preserving energy management for smart meters. , 2014, , .		39
47	Topology Control for Energy-Efficient Localization in Mobile Underwater Sensor Networks Using Stackelberg Game. IEEE Transactions on Vehicular Technology, 2019, 68, 1487-1500.	6.3	38
48	Leveraging the Power of Prediction: Predictive Service Placement for Latency-Sensitive Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2020, 19, 6454-6468.	9.2	38
49	Crowd Foraging: A QoS-Oriented Self-Organized Mobile Crowdsourcing Framework Over Opportunistic Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 848-862.	14.0	37
50	Deep Reinforcement Learning With Spatio-Temporal Traffic Forecasting for Data-Driven Base Station Sleep Control. IEEE/ACM Transactions on Networking, 2021, 29, 935-948.	3.8	37
51	Incentive-Aware Micro Computing Cluster Formation for Cooperative Fog Computing. IEEE Transactions on Wireless Communications, 2020, 19, 2643-2657.	9.2	37
52	Offloading Autonomous Driving Services via Edge Computing. IEEE Internet of Things Journal, 2020, 7, 10535-10547.	8.7	36
53	Heterogeneous Edge Offloading With Incomplete Information: A Minority Game Approach. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2139-2154.	5.6	35
54	HierTrain: Fast Hierarchical Edge AI Learning With Hybrid Parallelism in Mobile-Edge-Cloud Computing. IEEE Open Journal of the Communications Society, 2020, 1, 634-645.	6.9	35

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55	Evolutionarily Stable Spectrum Access. IEEE Transactions on Mobile Computing, 2013, 12, 1281-1293.	5.8	34
56	Socially-Motivated Cooperative Mobile Edge Computing. IEEE Network, 2018, 32, 177-183.	6.9	34
57	Mobile Social Data Learning for User-Centric Location Prediction With Application in Mobile Edge Service Migration. IEEE Internet of Things Journal, 2019, 6, 7737-7747.	8.7	34
58	Graph Attention Spatial-Temporal Network With Collaborative Global-Local Learning for Citywide Mobile Traffic Prediction. IEEE Transactions on Mobile Computing, 2022, 21, 1244-1256.	5.8	33
59	Resource Price-Aware Offloading for Edge-Cloud Collaboration: A Two-Timescale Online Control Approach. IEEE Transactions on Cloud Computing, 2022, 10, 648-661.	4.4	31
60	Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. IEEE Internet of Things Journal, 2021, 8, 14471-14484.	8.7	31
61	Optimal userâ€centric relay assisted deviceâ€toâ€device communications: an auction approach. IET Communications, 2015, 9, 386-395.	2.2	30
62	When Social Network Meets Mobile Cloud: A Social Group Utility Approach for Optimizing Computation Offloading in Cloudlet. IEEE Access, 2016, 4, 5868-5879.	4.2	30
63	Exploiting Social Trust Assisted Reciprocity (STAR) Toward Utility-Optimal Socially-Aware Crowdsensing. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 195-208.	2.8	26
64	Social Trust Aided D2D Communications: Performance Bound and Implementation Mechanism. IEEE Journal on Selected Areas in Communications, 2018, 36, 1593-1608.	14.0	26
65	ERP: Edge Resource Pooling for Data Stream Mobile Computing. IEEE Internet of Things Journal, 2019, 6, 4355-4368.	8.7	25
66	P-FedAvg: Parallelizing Federated Learning with Theoretical Guarantees. , 2021, , .		24
67	SoCast: Social ties based cooperative video multicast. , 2014, , .		22
68	Personalized location privacy in mobile networks: A social group utility approach. , 2015, , .		22
69	FedHAR: Semi-Supervised Online Learning for Personalized Federated Human Activity Recognition. IEEE Transactions on Mobile Computing, 2023, 22, 3318-3332.	5.8	22
70	Edge Robotics: Edge-Computing-Accelerated Multirobot Simultaneous Localization and Mapping. IEEE Internet of Things Journal, 2022, 9, 14087-14102.	8.7	22
71	An Edge Computing-Based Photo Crowdsourcing Framework for Real-Time 3D Reconstruction. IEEE Transactions on Mobile Computing, 2022, 21, 421-432.	5.8	20
72	DeepVR: Deep Reinforcement Learning for Predictive Panoramic Video Streaming. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 1167-1177.	7.9	19

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73	Impact of Temporary Fork on the Evolution of Mining Pools in Blockchain Networks: An Evolutionary Game Analysis. IEEE Transactions on Network Science and Engineering, 2021, 8, 400-418.	6.4	19
74	GreenEdge: Joint Green Energy Scheduling and Dynamic Task Offloading in Multi-Tier Edge Computing Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 4322-4335.	6.3	17
75	To Bond or Not to Bond: An Optimal Channel Allocation Algorithm for Flexible Dynamic Channel Bonding in WLANs. , 2017, , .		16
76	Graph Attention Spatial-Temporal Network for Deep Learning Based Mobile Traffic Prediction. , 2019, , .		16
77	Realtime 2D code based localization for indoor robot navigation. , 2013, , .		15
78	Spatial Spectrum Access Game. IEEE Transactions on Mobile Computing, 2015, 14, 646-659.	5.8	15
79	Social group utility maximization in mobile networks: From altruistic to malicious behavior. , 2014, , .		14
80	Follow Me at the Edge: Mobility-Aware Dynamic Service Placement for Mobile Edge Computing. , 2018, , .		14
81	Prospect Theoretic Analysis of Privacy-Preserving Mechanism. IEEE/ACM Transactions on Networking, 2020, 28, 71-83.	3.8	14
82	Adaptive User-managed Service Placement for Mobile Edge Computing via Contextual Multi-armed Bandit Learning. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	14
83	Spice: Socially-driven learning-based mobile media prefetching. , 2016, , .		13
84	Predictive Online Server Provisioning for Cost-Efficient IoT Data Streaming Across Collaborative Edges. , 2019, , .		13
85	Predictive Service Placement in Mobile Edge Computing. , 2019, , .		13
86	Content Retrieval at the Edge: A Social-Aware and Named Data Cooperative Framework. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 135-148.	4.6	13
87	A novel artificial intelligence protocol to investigate potential leads for Parkinson's disease. RSC Advances, 2020, 10, 22939-22958.	3.6	12
88	A novel artificial intelligence protocol for finding potential inhibitors of acute myeloid leukemia. Journal of Materials Chemistry B, 2020, 8, 2063-2081.	5.8	12
89	Fog-Enabled Joint Computation, Communication and Caching Resource Sharing for Energy-Efficient IoT Data Stream Processing. IEEE Transactions on Vehicular Technology, 2021, 70, 3715-3730.	6.3	11

90 Social-Aware Privacy-Preserving Correlated Data Collection. , 2018, , .

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91	Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. IEEE Internet of Things Journal, 2021, 8, 1095-1108.	8.7	10
92	Caching-Enabled Computation Offloading in Multi-Region MEC Network via Deep Reinforcement Learning. IEEE Internet of Things Journal, 2022, 9, 21086-21098.	8.7	10
93	Imitation-Based Social Spectrum Sharing. IEEE Transactions on Mobile Computing, 2015, 14, 1189-1202.	5.8	9
94	Amazon in the White Space: Social Recommendation Aided Distributed Spectrum Access. IEEE/ACM Transactions on Networking, 2017, 25, 536-549.	3.8	9
95	A D2D offloading approach to efficient mobile edge resource pooling. , 2018, , .		9
96	Maximal energy efficient task scheduling for homogeneous fog networks. , 2018, , .		9
97	Special Issue on Artificial-Intelligence-Powered Edge Computing for Internet of Things. IEEE Internet of Things Journal, 2020, 7, 9224-9226.	8.7	9
98	Privacy-Preserving Incentive Mechanisms for Truthful Data Quality in Data Crowdsourcing. IEEE Transactions on Mobile Computing, 2022, , 1-1.	5.8	9
99	Enabling Long-Term Cooperation in Cross-Silo Federated Learning: A Repeated Game Perspective. IEEE Transactions on Mobile Computing, 2023, 22, 3910-3924.	5.8	9
100	An Efficient Social-Aware Computation Offloading Algorithm in Cloudlet System. , 2016, , .		8
101	Cost-Aware Edge Resource Probing for Infrastructure-Free Edge Computing: From Optimal Stopping to Layered Learning. , 2019, , .		8
102	GAIN: Graph Attention & Interaction Network for Inductive Semi-Supervised Learning Over Large-Scale Graphs. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4257-4269.	5.7	8
103	AdaFed: Optimizing Participation-Aware Federated Learning With Adaptive Aggregation Weights. IEEE Transactions on Network Science and Engineering, 2022, 9, 2708-2720.	6.4	8
104	Social group utility maximization game with applications in mobile social networks. , 2013, , .		7
105	Latency-Sensitive Data Allocation and Workload Consolidation for Cloud Storage. IEEE Access, 2018, 6, 76098-76110.	4.2	7
106	SERO: A Model-Driven Seamless Roaming Framework for Wireless Mesh Network With Multipath TCP. IEEE Transactions on Communications, 2019, 67, 1284-1296.	7.8	7
107	Aol-driven Fresh Situation Awareness by UAV Swarm: Collaborative DRL-based Energy-Efficient Trajectory Control and Data Processing. , 2020, , .		7
108	Social-Aware Privacy-Preserving Mechanism for Correlated Data. IEEE/ACM Transactions on Networking, 2020, 28, 1671-1683.	3.8	7

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109	ColaSLAM: Real-Time Multi-Robot Collaborative Laser SLAM via Edge Computing. , 2021, , .		7
110	Deep Transfer Learning Across Cities for Mobile Traffic Prediction. IEEE/ACM Transactions on Networking, 2022, 30, 1255-1267.	3.8	7
111	Learn to Coordinate for Computation Offloading and Resource Allocation in Edge Computing: A Rational-Based Distributed Approach. IEEE Transactions on Network Science and Engineering, 2022, 9, 3136-3151.	6.4	7
112	Coalition-based energy efficient offloading strategy for immersive collaborative applications in Femto-Cloud. , 2016, , .		6
113	Optimal Privacy-Preserving Data Collection: A Prospect Theory Perspective. , 2017, , .		6
114	ButterFly: Mobile collaborative rendering over GPU workload migration. , 2017, , .		6
115	F3C: Fog-enabled Joint Computation, Communication and Caching Resource Sharing for Energy-Efficient IoT Data Stream Processing. , 2019, , .		6
116	A novel artificial intelligence protocol to investigate potential leads for diabetes mellitus. Molecular Diversity, 2021, 25, 1375-1393.	3.9	6
117	Dynamic Age Minimization With Real-Time Information Preprocessing for Edge-Assisted IoT Devices With Energy Harvesting. IEEE Transactions on Network Science and Engineering, 2021, 8, 2288-2300.	6.4	6
118	Incentive-Aware Autonomous Client Participation in Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2612-2627.	5.6	6
119	A Profit-Maximizing Model Marketplace with Differentially Private Federated Learning. , 2022, , .		6
120	EdgeAdaptor: Online Configuration Adaption, Model Selection and Resource Provisioning for Edge DNN Inference Serving at Scale. IEEE Transactions on Mobile Computing, 2023, 22, 5870-5886.	5.8	6
121	DeepCP: Deep Learning Driven Cascade Prediction-Based Autonomous Content Placement in Closed Social Network. IEEE Journal on Selected Areas in Communications, 2020, 38, 1570-1583.	14.0	5
122	Mobile App Usage Patterns Aware Smart Data Pricing. IEEE Journal on Selected Areas in Communications, 2020, 38, 645-654.	14.0	5
123	Adaptive and Collaborative Edge Inference in Task Stream with Latency Constraint. , 2021, , .		5
124	Edgeconomics: Price Competition and Selfish Computation Offloading in Multi-Server Edge Computing Networks. , 2021, , .		5
125	Fograph: Enabling Real-Time Deep Graph Inference with Fog Computing. , 2022, , .		5
126	Edge intelligence in motion: Mobility-aware dynamic DNN inference service migration with downtime in mobile edge computing. Journal of Systems Architecture, 2022, 130, 102664.	4.3	5

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127	Data Poisoning Attacks and Defenses in Dynamic Crowdsourcing With Online Data Quality Learning. IEEE Transactions on Mobile Computing, 2023, 22, 2569-2581.	5.8	4
128	AS path inference: From complex network perspective. , 2015, , .		3
129	Online Scheduling of Traffic Diversion and Cloud Scrubbing with Uncertainty in Current Inputs. , 2019, , .		3
130	Privacy Policy in Online Social Network with Targeted Advertising Business. , 2020, , .		3
131	IEEE Access Special Section Editorial: Edge Computing and Networking for Ubiquitous AI. IEEE Access, 2021, 9, 90933-90936.	4.2	3
132	Adaptive Fuzzy Game-Based Energy-Efficient Localization in 3D Underwater Sensor Networks. ACM Transactions on Internet Technology, 2022, 22, 1-20.	4.4	3
133	Measurement and analysis on large-scale offline mobile app dissemination over device-to-device sharing in mobile social networks. World Wide Web, 2020, 23, 2363-2389.	4.0	2
134	Deep Reinforcement Learning for Intelligent Cloud Resource Management. , 2021, , .		2
135	Online Control of Service Function Chainings Across Geo-Distributed Datacenters. IEEE Transactions on Mobile Computing, 2023, 22, 3558-3571.	5.8	2
136	Flying MEC: Online Task Offloading, Trajectory Planning and Charging Scheduling for UAV-Assisted MEC. Lecture Notes in Computer Science, 2022, , 460-475.	1.3	2
137	Learning Proximal Operator Methods for Massive Connectivity in IoT Networks. , 2021, , .		2
138	Olive Branch Learning: A Novel Federated Learning Framework for Space-Air-Ground Integrated Network. , 2021, , .		2
139	User-Centric Location Prediction in Mobile Social Networks: A Factor Graph Learning Approach. , 2018, , .		1
140	Information Cascades over Diffusion-Restricted Social Network: A Data-Driven Analysis. , 2019, , .		1
141	Cost-Efficient and Skew-Aware Data Scheduling for Incremental Learning in 5G Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 578-595.	14.0	1
142	On-demand Privacy Preservation for Cost-Efficient Edge Intelligence Model Training. Lecture Notes in Computer Science, 2019, , 321-329.	1.3	1
143	Carpool for Big Data: Enabling Efficient Crowd Cooperation in Data Market for Pervasive Al. IEEE Transactions on Vehicular Technology, 2020, 69, 7778-7789.	6.3	1
144	Privacy-Aware Online Social Networking With Targeted Advertisement. IEEE/ACM Transactions on Networking, 2022, 30, 1312-1327.	3.8	1

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145	Continuous ZND (Zhang Neural Dynamics) Model for Generalized Sinkhorn Scaling of Time-Varying Matrix. , 2021, , .		1
146	Accelerating Federated Learning via Parallel Servers: A Theoretically Guaranteed Approach. IEEE/ACM Transactions on Networking, 2022, 30, 2201-2215.	3.8	1
147	Police radio for multimedia communications based on 800 MHz wireless trunking system and GPS techniques. , 0, , .		Ο
148	Optimized methodologies for augmented reality markers based localization. , 2014, , .		0
149	WeChat Toxic Article Detection: A Data-Driven Machine Learning Approach. , 2018, , .		Ο
150	Noisy Zhang-Dynamics (ZD) Method for Genesio Chaotic (GC) System Synchronization: Elegant Analyses and Unequal-Parameter Extension. , 2019, , .		0
151	Identifying User Relationship on WeChat Money-Gifting Network. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 3814-3825.	5.7	Ο
152	Ada3D. , 2020, , .		0
153	Compressive Sensing based Predictive Online Scheduling with Task Colocation in Cloud Data Center. , 2020, , .		0