Kun Wang

List of Publications by Year
in descending order

128 papers	6,465 citations	61984 43 h-index	74163 75 g-index
129 all docs	129 docs citations	129 times ranked	6395 citing authors

#	Article	IF	Citations
1	VocalPrint: A mmWave-Based Unmediated Vocal Sensing System for Secure Authentication. IEEE Transactions on Mobile Computing, 2023, 22, 589-606.	5.8	7
2	Efficient Trustworthiness Management for Malicious User Detection in Big Data Collection. IEEE Transactions on Big Data, 2022, 8, 99-112.	6.1	15
3	Double-Blockchain Assisted Secure and Anonymous Data Aggregation for Fog-Enabled Smart Grid. Engineering, 2022, 8, 159-169.	6.7	37
4	Scanning the Voice of Your Fingerprint With Everyday Surfaces. IEEE Transactions on Mobile Computing, 2022, 21, 3024-3040.	5.8	1
5	Effective Scaling of Blockchain Beyond Consensus Innovations and Moore's Law: Challenges and Opportunities. IEEE Systems Journal, 2022, 16, 1424-1435.	4.6	12
6	Falcon: Addressing Stragglers in Heterogeneous Parameter Server Via Multiple Parallelism. IEEE Transactions on Computers, 2021, 70, 139-155.	3.4	23
7	QoE-Based Task Offloading With Deep Reinforcement Learning in Edge-Enabled Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2252-2261.	8.0	59
8	Performance Benchmarking and Optimization for IIoT-oriented Blockchain. Lecture Notes in Computer Science, 2021, , 395-406.	1.3	0
9	Distributed Machine Learning based Mitigating Straggler in Big Data Environment. , 2021, , .		4
10	Renewable Energy-Aware Big Data Analytics in Geo-Distributed Data Centers with Reinforcement Learning. IEEE Transactions on Network Science and Engineering, 2020, 7, 205-215.	6.4	72
11	Green Resource Allocation Based on Deep Reinforcement Learning in Content-Centric IoT. IEEE Transactions on Emerging Topics in Computing, 2020, 8, 781-796.	4.6	160
12	Differential Privacy Preserving of Training Model in Wireless Big Data with Edge Computing. IEEE Transactions on Big Data, 2020, 6, 283-295.	6.1	73
13	Near-Optimal Deployment of Service Chains by Exploiting Correlations Between Network Functions. IEEE Transactions on Cloud Computing, 2020, 8, 585-596.	4.4	18
14	Fog-based Optimized Kronecker-Supported Compression Design for Industrial IoT. IEEE Transactions on Sustainable Computing, 2020, 5, 95-106.	3.1	29
15	Redundancy Avoidance for Big Data in Data Centers: A Conventional Neural Network Approach. IEEE Transactions on Network Science and Engineering, 2020, 7, 104-114.	6.4	21
16	Adaptive and Fault-Tolerant Data Processing in Healthcare IoT Based on Fog Computing. IEEE Transactions on Network Science and Engineering, 2020, 7, 263-273.	6.4	57
17	An SDN-Enabled Pseudo-Honeypot Strategy for Distributed Denial of Service Attacks in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 648-657.	11.3	70
18	Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters. IEEE Transactions on Mobile Computing, 2020, 19, 2743-2760.	5.8	16

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19	Big Data Cleaning Based on Mobile Edge Computing in Industrial Sensor-Cloud. IEEE Transactions on Industrial Informatics, 2020, 16, 1321-1329.	11.3	150
20	Energy-Optimal Dynamic Computation Offloading for Industrial IoT in Fog Computing. IEEE Transactions on Green Communications and Networking, 2020, 4, 566-576.	5.5	69
21	Tornado: Enabling Blockchain in Heterogeneous Internet of Things Through a Space-Structured Approach. IEEE Internet of Things Journal, 2020, 7, 1273-1286.	8.7	56
22	Edge QoE: Intelligent Big Data Caching via Deep Reinforcement Learning. IEEE Network, 2020, 34, 8-13.	6.9	11
23	Spacechain: A Three-Dimensional Blockchain Architecture for IoT Security. IEEE Wireless Communications, 2020, 27, 38-45.	9.0	33
24	Efficient Privacy Preserving Data Collection and Computation Offloading for Fog-Assisted IoT. IEEE Transactions on Sustainable Computing, 2020, 5, 526-540.	3.1	38
25	QoE-driven Task Offloading with Deep Reinforcement Learning in Edge intelligent IoV. , 2020, , .		2
26	Data-Driven QoE Measurement. , 2020, , 296-299.		0
27	An Ethereum-Based Data Synchronization Platform for Distributed Networks. Lecture Notes in Computer Science, 2020, , 143-157.	1.3	0
28	Semi-Supervised Metric Learning-Based Anchor Graph Hashing for Large-Scale Image Retrieval. IEEE Transactions on Image Processing, 2019, 28, 739-754.	9.8	35
29	Range-Based Localization for Sparse 3-D Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 753-764.	8.7	60
30	Time-Sync Video Tag Extraction Using Semantic Association Graph. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-24.	3.5	6
31	Fast Coflow Scheduling via Traffic Compression and Stage Pipelining in Datacenter Networks. IEEE Transactions on Computers, 2019, 68, 1755-1771.	3.4	23
32	Delay Guaranteed Energy-Efficient Computation Offloading for Industrial IoT in Fog Computing. , 2019, , .		27
33	Metric Learning-Based Multi-Instance Multi-Label Classification With Label Correlation. IEEE Access, 2019, 7, 109899-109909.	4.2	5
34	Joint Workload Scheduling and Energy Management for Green Data Centers Powered by Fuel Cells. IEEE Transactions on Green Communications and Networking, 2019, 3, 397-406.	5.5	16
35	A Comprehensive Survey of Blockchain: From Theory to IoT Applications and Beyond. IEEE Internet of Things Journal, 2019, 6, 8114-8154.	8.7	197
36	Trust-Enhanced Content Delivery in Blockchain-Based Information-Centric Networking. IEEE Network, 2019, 33, 183-189.	6.9	36

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37	Privacy-Preserving and Residential Context-Aware Online Learning for IoT-Enabled Energy Saving With Big Data Support in Smart Home Environment. IEEE Internet of Things Journal, 2019, 6, 7450-7468.	8.7	9
38	Green Data-Collection From Geo-Distributed IoT Networks Through Low-Earth-Orbit Satellites. IEEE Transactions on Green Communications and Networking, 2019, 3, 806-816.	5.5	57
39	Protecting Privacy-Sensitive Locations in Trajectories with Correlated Positions. , 2019, , .		1
40	Topology-Aware Job Scheduling for Machine Learning Cluster. , 2019, , .		0
41	Traffic and Computation Co-Offloading With Reinforcement Learning in Fog Computing for Industrial Applications. IEEE Transactions on Industrial Informatics, 2019, 15, 976-986.	11.3	167
42	Making Big Data Open in Edges: A Resource-Efficient Blockchain-Based Approach. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 870-882.	5.6	187
43	Privacy-preserving Data Aggregation Computing in Cyber-Physical Social Systems. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-23.	2.5	47
44	Robust Big Data Analytics for Electricity Price Forecasting in the Smart Grid. IEEE Transactions on Big Data, 2019, 5, 34-45.	6.1	129
45	A hierarchical adaptive spatio-temporal data compression scheme for wireless sensor networks. Wireless Networks, 2019, 25, 429-438.	3.0	14
46	Improving Power Efficiency for Online Video Streaming Service: A Self-Adaptive Approach. IEEE Transactions on Sustainable Computing, 2019, 4, 308-313.	3.1	6
47	A Differential Privacy-Based Query Model for Sustainable Fog Data Centers. IEEE Transactions on Sustainable Computing, 2019, 4, 145-155.	3.1	36
48	Data-Driven QoE Measurement. , 2019, , 1-4.		0
49	Envisioned Wireless Big Data Storage for Low-Earth-Orbit Satellite-Based Cloud. IEEE Wireless Communications, 2018, 25, 26-31.	9.0	24
50	Green Energy Scheduling for Demand Side Management in the Smart Grid. IEEE Transactions on Green Communications and Networking, 2018, 2, 596-611.	5.5	102
51	QoE-Driven Big Data Architecture for Smart City. , 2018, 56, 88-93.		91
52	Fast Identification of Blocked RFID Tags. IEEE Transactions on Mobile Computing, 2018, 17, 2041-2054.	5.8	25
53	Program Popularity Prediction Approach for Internet TV Based on Trend Detecting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 142-154.	0.3	0
54	Probabilistic Model Checking and Scheduling Implementation of an Energy Router System in Energy Internet for Green Cities. IEEE Transactions on Industrial Informatics, 2018, 14, 1501-1510.	11.3	93

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55	A Survey on Energy Internet: Architecture, Approach, and Emerging Technologies. IEEE Systems Journal, 2018, 12, 2403-2416.	4.6	275
56	Distributed Real-Time HVAC Control for Cost-Efficient Commercial Buildings Under Smart Grid Environment. IEEE Internet of Things Journal, 2018, 5, 44-55.	8.7	48
57	Fog Computing Assisted Efficient Privacy Preserving Data Collection for Big Sensory Data. , 2018, , .		7
58	Non-Invasive Sleeping Posture Recognition and Body Movement Detection Based on RFID. , 2018, , .		7
59	Energy Management of Data Centers Powered by Fuel Cells and Heterogeneous Energy Storage. , 2018, , .		2
60	Artificial Intelligence Inspired Multi-Dimensional Traffic Control for Heterogeneous Networks. IEEE Network, 2018, 32, 84-91.	6.9	32
61	QoE-Based Big Data Analysis with Deep Learning in Pervasive Edge Environment. , 2018, , .		14
62	Software-Defined Green 5G System for Big Data. IEEE Communications Magazine, 2018, 56, 116-123.	6.1	15
63	Online Green Data Gathering from Geo-Distributed IoT Networks via LEO Satellites. , 2018, , .		14
64	Jamming and Eavesdropping Defense in Green Cyber–Physical Transportation Systems Using a Stackelberg Game. IEEE Transactions on Industrial Informatics, 2018, 14, 4232-4242.	11.3	56
65	Energy Management for EV Charging in Software-Defined Green Vehicle-to-Grid Network. , 2018, 56, 156-163.		34
66	Making Big Data Open in Collaborative Edges: A Blockchain-Based Framework with Reduced Resource Requirements. , 2018, , .		12
67	QoE-Driven Joint Resource Allocation for Content Delivery in Fog Computing Environment. , 2018, , .		9
68	Cluster Frameworks for Efficient Scheduling and Resource Allocation in Data Center Networks: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 3560-3580.	39.4	48
69	Big Data Privacy Preserving in Multi-Access Edge Computing for Heterogeneous Internet of Things. IEEE Communications Magazine, 2018, 56, 62-67.	6.1	212
70	Fog Computing Based Optimized Compressive Data Collection for Big Sensory Data. , 2018, , .		15
71	Game-Theory-Based Active Defense for Intrusion Detection in Cyber-Physical Embedded Systems. Transactions on Embedded Computing Systems, 2017, 16, 1-21.	2.9	66
72	A Trust Model Based on Cloud Theory in Underwater Acoustic Sensor Networks. IEEE Transactions on Industrial Informatics, 2017, 13, 342-350.	11.3	81

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73	Strategic Honeypot Game Model for Distributed Denial of Service Attacks in the Smart Grid. IEEE Transactions on Smart Grid, 2017, 8, 2474-2482.	9.0	162
74	An SDN-Based Architecture for Next-Generation Wireless Networks. IEEE Wireless Communications, 2017, 24, 25-31.	9.0	70
75	Vehicle-assist resilient information and network system for disaster management. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 438-448.	4.6	44
76	Big Data Analytics for System Stability Evaluation Strategy in the Energy Internet. IEEE Transactions on Industrial Informatics, 2017, 13, 1969-1978.	11.3	121
77	Wireless Big Data Computing in Smart Grid. IEEE Wireless Communications, 2017, 24, 58-64.	9.0	134
78	Strategic Antieavesdropping Game for Physical Layer Security in Wireless Cooperative Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9448-9457.	6.3	40
79	Multi-Method Data Delivery for Green Sensor-Cloud. , 2017, 55, 176-182.		72
80	A Pre-Authentication Approach to Proxy Re-encryption in Big Data Context. IEEE Transactions on Big Data, 2017, , 1-1.	6.1	30
81	Robust detection of false data injection attacks for data aggregation in an Internet of Things-based environmental surveillance. Computer Networks, 2017, 129, 410-428.	5.1	44
82	A Survey on Energy Internet Communications for Sustainability. IEEE Transactions on Sustainable Computing, 2017, 2, 231-254.	3.1	107
83	Accelerated Distributed Optimization Design for Reconstruction of Big Sensory Data. IEEE Internet of Things Journal, 2017, 4, 1716-1725.	8.7	21
84	Distributed Energy Management for Vehicle-to-Grid Networks. IEEE Network, 2017, 31, 22-28.	6.9	49
85	Antieavesdropping With Selfish Jamming in Wireless Networks: A Bertrand Game Approach. IEEE Transactions on Vehicular Technology, 2017, 66, 6268-6279.	6.3	25
86	Crowdsourcing-Based Content-Centric Network: A Social Perspective. IEEE Network, 2017, 31, 28-34.	6.9	18
87	Big Data Analytics for Program Popularity Prediction in Broadcast TV Industries. IEEE Access, 2017, 5, 24593-24601.	4.2	25
88	Pinpointing Anomaly RFID Tags: Situation and Opportunities. IEEE Network, 2017, 31, 40-47.	6.9	11
89	Top- k Queries for Categorized RFID Systems. IEEE/ACM Transactions on Networking, 2017, 25, 2587-2600.	3.8	26
90	Take Renewable Energy into CRAN toward Green Wireless Access Networks. IEEE Network, 2017, 31, 62-68.	6.9	23

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91	A reliable task assignment strategy for spatial crowdsourcing in big data environment. , 2017, , .		2
92	Reinforcement learning-based adaptive resource management of differentiated services in geo-distributed data centers. , 2017, , .		20
93	Traffic-Aware Geo-Distributed Big Data Analytics with Predictable Job Completion Time. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1785-1796.	5.6	57
94	Social-Aware Computing based Congestion Control in Delay Tolerant Networks. Mobile Networks and Applications, 2017, 22, 174-185.	3.3	10
95	A Selective Privacy-Preserving Approach for Multimedia Data. IEEE MultiMedia, 2017, 24, 14-25.	1.7	20
96	Probabilistic Model Checking for Green Energy Router System in Energy Internet. , 2017, , .		2
97	Toward Big Data in Green City. , 2017, 55, 14-18.		73
98	Intelligent Resource Management in Blockchain-Based Cloud Datacenters. IEEE Cloud Computing, 2017, 4, 50-59.	3.9	155
99	Home Location Protection in Mobile Social Networks: A Community Based Method (Short Paper). Lecture Notes in Computer Science, 2017, , 694-704.	1.3	4
100	An Overview on Key Technologies of Secure and Efficient Data Transmission for Energy Internet. , 2017, , .		0
101	A Software-Defined Green Framework for Hybrid EV-Charging Networks. , 2017, 55, 62-69.		10
102	A Multiobjective Evolution Algorithm Based Rule Certainty Updating Strategy in Big Data Environment. , 2017, , .		1
103	Promoting Security and Efficiency in D2D Underlay Communication: A Bargaining Game Approach. , 2017, , .		6
104	Crowdsourced time-sync video tagging using semantic association graph. , 2017, , .		18
105	Non-invasive sleep monitoring based on RFID. , 2017, , .		10
106	Bayesian Game Based Pseudo Honeypot Model in Social Networks. Lecture Notes in Computer Science, 2017, , 62-71.	1.3	5
107	Green Industrial Internet of Things Architecture: An Energy-Efficient Perspective. IEEE Communications Magazine, 2016, 54, 48-54.	6.1	354
108	Online energy management for data centers and electric vehicles in smart grid environment. , 2016, , .		3

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109	Attack Detection and Distributed Forensics in Machine-to-Machine Networks. IEEE Network, 2016, 30, 49-55.	6.9	54
110	Heuristic Optimization for Reliable Data Congestion Analytics in Crowdsourced eHealth Networks. IEEE Access, 2016, 4, 9174-9183.	4.2	12
111	Energy big data: A survey. IEEE Access, 2016, 4, 3844-3861.	4.2	275
112	An incremental learning classification algorithm based on forgetting factor for eHealth networks. , 2016, , .		4
113	Social-aware energy harvesting device-to-device communications in 5G networks. IEEE Wireless Communications, 2016, 23, 20-27.	9.0	104
114	Toward trustworthy crowdsourcing in the social internet of things. IEEE Wireless Communications, 2016, 23, 30-36.	9.0	89
115	Real-Time Load Reduction in Multimedia Big Data for Mobile Internet. ACM Transactions on Multimedia Computing, Communications and Applications, 2016, 12, 1-20.	4.3	44
116	A dynamic assignment scheduling algorithm for big data stream processing in mobile Internet services. Personal and Ubiquitous Computing, 2016, 20, 373-383.	2.8	8
117	Toward Distributed Data Processing on Intelligent Leak-Points Prediction in Petrochemical Industries. IEEE Transactions on Industrial Informatics, 2016, 12, 2091-2102.	11.3	33
118	Mobile big data fault-tolerant processing for ehealth networks. IEEE Network, 2016, 30, 36-42.	6.9	120
119	An Energy-Efficient Reliable Data Transmission Scheme for Complex Environmental Monitoring in Underwater Acoustic Sensor Networks. IEEE Sensors Journal, 2016, 16, 4051-4062.	4.7	155
120	Adaptive TDMA-based MAC protocol in energy harvesting wireless body area network for mobile health. , 2015, , .		5
121	An Energy-Balanced Multi-Hop Relay Transmission Scheme Based on RVNS in DTMSN. , 2015, , .		1
122	LDPA: a local data processing architecture in ambient assisted living communications. , 2015, 53, 56-63.		67
123	A Game Theory-Based Energy Management System Using Price Elasticity for Smart Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 1607-1616.	11.3	130
124	Combining network coding and compressed sensing for error correction in wireless sensor networks. International Journal of Communication Systems, 2015, 28, 1303-1315.	2.5	8
125	Compressive network coding for error control in wireless sensor networks. Wireless Networks, 2014, 20, 2605-2615.	3.0	22
126	An Improved Routing Algorithm Based on Social Link Awareness in Delay Tolerant Networks. Wireless Personal Communications, 2014, 75, 397-414.	2.7	19

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127	A context-aware system architecture for leak point detection in the large-scale petrochemical industry. IEEE Communications Magazine, 2014, 52, 62-69.	6.1	147
128	A query-matching mechanism over out-of-order event stream in IOT. International Journal of Ad Hoc and Ubiquitous Computing, 2013, 13, 197.	0.5	18