

# Kui Wu

## List of Publications by Year in descending order

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125  
papers

2,140  
citations

331670

21  
h-index

315739

38  
g-index

128  
all docs

128  
docs citations

128  
times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Energy-Efficient Data Collection Framework for Wireless Sensor Networks by Exploiting Spatiotemporal Correlation. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1010-1023.	5.6	223
2	Lightweight Deployment-Aware Scheduling for Wireless Sensor Networks. Mobile Networks and Applications, 2005, 10, 837-852.	3.3	168
3	Battling the internet water army. , 2013, , .		114
4	Radio frequency identification: technologies, applications, and research issues. Wireless Communications and Mobile Computing, 2007, 7, 457-472.	1.2	106
5	Secure data aggregation without persistent cryptographic operations in wireless sensor networks. Ad Hoc Networks, 2007, 5, 100-111.	5.5	80
6	Sensor localization with Ring Overlapping based on Comparison of Received Signal Strength Indicator. , 0, , .		74
7	Anomaly Detection Based Secure In-Network Aggregation for Wireless Sensor Networks. IEEE Systems Journal, 2013, 7, 13-25.	4.6	72
8	Coverage and Detection of a Randomized Scheduling Algorithm in Wireless Sensor Networks. IEEE Transactions on Computers, 2010, 59, 507-521.	3.4	64
9	Enhancing Security Using Mobility-Based Anomaly Detection in Cellular Mobile Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 1385-1396.	6.3	49
10	Integration of mobility and intrusion detection for wirelessad hoc networks. International Journal of Communication Systems, 2007, 20, 695-721.	2.5	49
11	Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. IEEE Internet of Things Journal, 2021, 8, 3576-3586.	8.7	48
12	VMThunder: Fast Provisioning of Large-Scale Virtual Machine Clusters. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3328-3338.	5.6	46
13	Channel Selective Activity Recognition with WiFi: A Deep Learning Approach Exploring Wideband Information. IEEE Transactions on Network Science and Engineering, 2020, 7, 181-192.	6.4	41
14	Online Resource Scheduling Under Concave Pricing for Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1131-1145.	5.6	40
15	From Landscape to Portrait: A New Approach for Outlier Detection in Load Curve Data. IEEE Transactions on Smart Grid, 2014, 5, 1764-1773.	9.0	34
16	Route Planning and Power Management for PHEVs With Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 4751-4762.	6.3	30
17	Robust K-means algorithm with automatically splitting and merging clusters and its applications for surveillance data. Multimedia Tools and Applications, 2016, 75, 12043-12059.	3.9	29
18	Continuous K-Means Monitoring with Low Reporting Cost in Sensor Networks. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1679-1691.	5.7	25

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19	A Distributed and Scalable Approach to Semi-Intrusive Load Monitoring. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1553-1565.	5.6	25
20	Bikeshare Pool Sizing for Bike-and-Ride Multimodal Transit. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2279-2289.	8.0	25
21	Learning-Based Dynamic Resource Provisioning for Network Slicing with Ensured End-to-End Performance Bound. IEEE Transactions on Network Science and Engineering, 2020, 7, 28-41.	6.4	25
22	TorWard: Discovery, Blocking, and Traceback of Malicious Traffic Over Tor. IEEE Transactions on Information Forensics and Security, 2015, 10, 2515-2530.	6.9	23
23	Rldish: Edge-Assisted QoE Optimization of HTTP Live Streaming with Reinforcement Learning. , 2020, , .		23
24	Run to Potential: Sweep Coverage in Wireless Sensor Networks. , 2009, , .		22
25	FIDC: A framework for improving data credibility in mobile crowdsensing. Computer Networks, 2017, 120, 157-169.	5.1	22
26	QoS Guaranteed Edge Cloud Resource Provisioning for Vehicle Fleets. IEEE Transactions on Vehicular Technology, 2020, 69, 5889-5900.	6.3	22
27	FedNILM: Applying Federated Learning to NILM Applications at the Edge. IEEE Transactions on Green Communications and Networking, 2023, 7, 857-868.	5.5	22
28	Optimal Task Offloading and Resource Allocation for C-NOMA Heterogeneous Air-Ground Integrated Power Internet of Things Networks. IEEE Transactions on Wireless Communications, 2022, 21, 9276-9292.	9.2	22
29	A Wide-Area Measurement Systems-Based Adaptive Strategy for Controlled Islanding in Bulk Power Systems. Energies, 2014, 7, 2631-2657.	3.1	20
30	Conflict-Aware Weighted Bipartite B-Matching and Its Application to E-Commerce. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1475-1488.	5.7	19
31	A dynamic clustering and scheduling approach to energy saving in data collection from wireless sensor networks. , 0, , .		17
32	Performance of Acyclic Stochastic Networks with Network Coding. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1238-1245.	5.6	17
33	TSAGen: Synthetic Time Series Generation for KPI Anomaly Detection. IEEE Transactions on Network and Service Management, 2022, 19, 130-145.	4.9	17
34	Towards adaptive intrusion detection in mobile ad hoc networks. , 0, , .		16
35	Energy efficient information collection with the ARIMA model in wireless sensor networks. , 2005, , .		16
36	A stochastic calculus for network systems with renewable energy sources. , 2012, , .		16

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37	Tapping the Knowledge of Dynamic Traffic Demands for Optimal CDN Design. IEEE/ACM Transactions on Networking, 2019, 27, 98-111.	3.8	16
38	Evaluating Adversarial Attacks on Driving Safety in Vision-Based Autonomous Vehicles. IEEE Internet of Things Journal, 2022, 9, 3443-3456.	8.7	15
39	Performance Study of Proactive Flow Handoff for Mobile Ad Hoc Networks. Wireless Networks, 2006, 12, 119-135.	3.0	14
40	Large-scale virtual machines provisioning in clouds: challenges and approaches. Frontiers of Computer Science, 2016, 10, 2-18.	2.4	14
41	Bound-based Network Tomography with Additive Metrics. , 2019, , .		14
42	Performance Modeling and Analysis of Multi-Path Routing in Integrated Fiber-Wireless Networks. , 2010, , .		13
43	GSAN: Graph Self-Attention Network for Learning Spatial&#x2013;Temporal Interaction Representation in Autonomous Driving. IEEE Internet of Things Journal, 2022, 9, 9190-9204.	8.7	13
44	On Optimizing Energy Consumption for Mobile Handsets. IEEE Transactions on Vehicular Technology, 2004, 53, 1927-1941.	6.3	12
45	WSN10-3: Maximizing Network Lifetime under QoS Constraints in Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	12
46	Robust Range-Free Localization in Wireless Sensor Networks. Mobile Networks and Applications, 2007, 12, 392-405.	3.3	12
47	A Prototype Wireless Sensor Network for Precision Agriculture. , 2013, , .		12
48	NIPD: Non-Intrusive Power Disaggregation in Legacy Datacenters. IEEE Transactions on Computers, 2016, , 1-1.	3.4	12
49	A Data-Centric Approach to Quality Estimation of Role Mining Results. IEEE Transactions on Information Forensics and Security, 2016, 11, 2678-2692.	6.9	12
50	Trusted audit with untrusted auditors: A decentralized data integrity Crowdauditing approach based on blockchain. International Journal of Intelligent Systems, 2021, 36, 6213-6239.	5.7	12
51	Reliable, distributed and energy-efficient broadcasting in multi-hop mobile ad hoc networks. , 0, , .		11
52	Rethinking CDN design with distributee time-varying traffic demands. , 2017, , .		11
53	Network Optimization for Lightweight Stochastic Scheduling in Underwater Sensor Networks. IEEE Transactions on Wireless Communications, 2012, , 1-10.	9.2	10
54	Minimum energy cooperative path routing in all-wireless networks: NP-completeness and heuristic algorithms. Journal of Communications and Networks, 2008, 10, 204-212.	2.6	9

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55	Performance modeling of stochastic networks with network coding. , 2009, , .		9
56	Weaving a proper net to catch large objects in wireless sensor networks. IEEE Transactions on Wireless Communications, 2010, 9, 1360-1369.	9.2	9
57	Intelligent Illumination Model-Based Lighting Control. , 2012, , .		9
58	Copula analysis for statistical network calculus. , 2015, , .		9
59	A new approach to mitigating security risks of phone clone co-location over mobile clouds. Journal of Network and Computer Applications, 2016, 62, 171-184.	9.1	9
60	On the Optimal Monitor Placement for Inferring Additive Metrics of Interested Paths. , 2018, , .		9
61	Resource Capacity Analysis in Network Slicing with Ensured End-to-End Performance Bound. , 2018, , .		9
62	Reusing Backup Batteries as BESS for Power Demand Reshaping in 5G and Beyond. , 2021, , .		9
63	Efficient Anomaly Detection for High-Dimensional Sensing Data With One-Class Support Vector Machine. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 404-417.	5.7	8
64	Non-Intrusive and High-Efficient Balance Tomography in the Lightning Network. , 2021, , .		8
65	Alleviating Low-Battery Anxiety of Mobile Users via Low-Power Video Streaming. , 2020, , .		8
66	Aol-centric Task Scheduling for Autonomous Driving Systems. , 2022, , .		8
67	Minimum Energy Cooperative Path Routing in Wireless Networks: An Integer Programming Formulation. , 0, , .		7
68	Delay-Constrained Optimal Data Aggregation in Hierarchical Wireless Sensor Networks. Mobile Networks and Applications, 2009, 14, 571-589.	3.3	7
69	FOCUS: A cost-effective approach for large-scale crop monitoring with sensor networks. , 2009, , .		7
70	On the model transform in stochastic network calculus. , 2010, , .		6
71	A smart meter based approach to power reliability index for enterprise-level power grid. , 2012, , .		6
72	Copula Analysis of Latent Dependency Structure for Collaborative Auto-Scaling of Cloud Services. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
73	Guest Editorial: Introduction to the Special Issue on Connected Vehicles in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2301-2304.	8.0	6
74	Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. IEEE Internet of Things Journal, 2021, 8, 1140-1153.	8.7	6
75	Change-Point Monitoring for Secure In-Network Aggregation in Wireless Sensor Networks. , 2007, , .		5
76	Intrusion Objects with Shapes under Randomized Scheduling Algorithm in Sensor Networks. , 2008, , .		5
77	PLVER: Joint Stable Allocation and Content Replication for Edge-Assisted Live Video Delivery. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 218-230.	5.6	5
78	Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. IEEE Internet of Things Journal, 2021, 8, 16498-16509.	8.7	5
79	BESS Aided Renewable Energy Supply Using Deep Reinforcement Learning for 5G and Beyond. IEEE Transactions on Green Communications and Networking, 2022, 6, 669-684.	5.5	5
80	SNIFF: A Scalable Network Inference Framework for Measuring End-to-End Performance. IEEE Transactions on Network Science and Engineering, 2022, 9, 1909-1923.	6.4	5
81	Taking a free ride for routing topology inference in peer-to-peer networks. Peer-to-Peer Networking and Applications, 2016, 9, 1047-1059.	3.9	4
82	Speeding Up Multi-CDN Content Delivery via Traffic Demand Reshaping. , 2018, , .		4
83	EviChain: A scalable blockchain for accountable intelligent surveillance systems. International Journal of Intelligent Systems, 2022, 37, 1454-1478.	5.7	4
84	A Whittle Index Approach to Minimizing Age of Multi-Packet Information in IoT Network. IEEE Access, 2021, 9, 31467-31480.	4.2	4
85	Location update for PCS networks with a fractional movement threshold. , 0, , .		3
86	Very low cost sensor localization for hostile environments. , 0, , .		3
87	A LCG-based Secure Protocol for Wireless Sensor Networks. , 2006, , .		3
88	WSN08-3: Pessimism Is Mostly the Best for the Expanding Ring Search in Wireless Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	3
89	Weaving a Proper Net to Catch Large Objects. , 2008, , .		3
90	A calculus for information-driven networks. , 2009, , .		3

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91	Intelligent meter placement for power quality estimation in smart grid. , 2013, , .		3
92	The Best Answers? Think Twice: Identifying Commercial Campagins in the CQA Forums. Journal of Computer Science and Technology, 2015, 30, 810-828.	1.5	3
93	A simple and robust approach to energy disaggregation in the presence of outliers. Sustainable Computing: Informatics and Systems, 2016, 9, 8-19.	2.2	3
94	SNIFF: A Scalable Network Inference Framework for Measuring End-to-End Performance Based on Matrix Completion. , 2019, , .		3
95	Bound Inference in Network Performance Tomography With Additive Metrics. IEEE/ACM Transactions on Networking, 2020, 28, 1859-1871.	3.8	3
96	CAPF: coded anycast packet forwarding for wireless mesh networks. Wireless Networks, 2011, 17, 1273-1285.	3.0	2
97	SHARK: sparse human action recovery with knowledge of appliances and load curve data. Cyber-Physical Systems, 2015, 1, 113-131.	2.0	2
98	Mobile Telecom Cloud brokerage with orchestrated multi-tier resource pooling. , 2015, , .		2
99	Guest Editorial Introduction to the Special Issue on Internet of Things and Sensors Technologies for Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2798-2801.	8.0	2
100	Multi-Source Stego Detection with Low-Dimensional Textural Feature and Clustering Ensembles. Symmetry, 2018, 10, 128.	2.2	2
101	When more may not be better: Toward cost-efficient CDN selection. , 2018, , .		2
102	Coarse-Grained Scheduling for Gateway Nodes in Wireless Sensor Networks. , 2007, , .		1
103	Three Dimensional Intrusion Objects Detection under Randomized Scheduling Algorithm in Sensor Networks. , 2008, , .		1
104	Transmission rate enhancement via adaptive relaying in wireless networks. International Journal of Parallel, Emergent and Distributed Systems, 2012, 27, 235-247.	1.0	1
105	Smart Saver: A Consumer-Oriented Web Service for Energy Disaggregation. , 2014, , .		1
106	Computer Vision-Based Detection of Violent Individual Actions Witnessed by Crowds. , 2016, , .		1
107	Conflict-aware weighted bipartite b-matching and its application to e-commerce. , 2017, , .		1
108	Modeling and Alleviating Low-Battery Anxiety for Mobile Users in Video Streaming Services. IEEE Internet of Things Journal, 2022, 9, 5065-5079.	8.7	1

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109	Controlling the Maximum Link Estimation Error in Network Performance Tomography. , 2021, , .		1
110	EdgeSaver: Edge-Assisted Energy-Aware Mobile Video Streaming for User Retention Enhancement. IEEE Internet of Things Journal, 2022, 9, 6550-6562.	8.7	1
111	An Aggregative Approach for Scalable Detection of DoS Attacks. , 2008, , .		0
112	Algorithms for Answering Geo-Range Query. , 2010, , .		0
113	Information Collection and Storage in Wireless Multimedia Sensor Network. , 2010, , 657-674.		0
114	Transmission Rate Enhancement of Cooperative Communications in Wireless Networks. , 2011, , .		0
115	A Maximum-Entropy based fast estimation of power quality for smart microgrid. , 2013, , .		0
116	RAFlow: Read Ahead Accelerated I/O Flow through Multiple Virtual Layers. , 2014, , .		0
117	Traffic Anomaly Detection in the presence of P2P traffic. , 2014, , .		0
118	Location Matters: Optimal Data Placement in Mobile Telecom Cloud. , 2014, , .		0
119	Fire Detection in Videos of Violent Crowds Acquired with Handheld Devices. , 2015, , .		0
120	Copula-based parameter estimation for Markov-modulated Poisson Process. , 2017, , .		0
121	A New Dependence Model for Heterogeneous Markov Modulated Poisson Processes. , 2018, , .		0
122	Automatic Data Quality Enhancement with Expert Knowledge for Mobile Crowdsensing. , 2019, , .		0
123	Leveraging Multiplexing Gain in Network Slice Bundles. IEEE Transactions on Network Science and Engineering, 2021, 8, 149-162.	6.4	0
124	Bound Inference and Reinforcement Learning-Based Path Construction in Bandwidth Tomography. IEEE/ACM Transactions on Networking, 2022, 30, 501-514.	3.8	0
125	Progressive Construction of k-identifiable Networks. , 2022, , .		0