

Kin K Leung

List of Publications by Year in descending order

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83
papers

5,170
citations

279798

23
h-index

265206

42
g-index

83
all docs

83
docs citations

83
times ranked

4842
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Indoor Localization Systems and Technologies. IEEE Communications Surveys and Tutorials, 2019, 21, 2568-2599.	39.4	1,335
2	Adaptive Federated Learning in Resource Constrained Edge Computing Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 1205-1221.	14.0	1,141
3	When Edge Meets Learning: Adaptive Control for Resource-Constrained Distributed Machine Learning. , 2018, , .		305
4	Dynamic Service Placement for Mobile Micro-Clouds with Predicted Future Costs. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1002-1016.	5.6	194
5	Dynamic Service Migration in Mobile Edge Computing Based on Markov Decision Process. IEEE/ACM Transactions on Networking, 2019, 27, 1272-1288.	3.8	179
6	Online Placement of Multi-Component Applications in Edge Computing Environments. IEEE Access, 2017, 5, 2514-2533.	4.2	152
7	Context-Awareness for Mobile Sensing: A Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2016, 18, 68-93.	39.4	150
8	Energy-Efficient Radio Resource Allocation for Federated Edge Learning. , 2020, , .		129
9	Opportunistic Relaying for Secrecy Communications: Cooperative Jamming vs. Relay Chatting. IEEE Transactions on Wireless Communications, 2011, 10, 1725-1729.	9.2	116
10	Mobility-Induced Service Migration in Mobile Micro-clouds. , 2014, , .		94
11	Toward QoI and Energy-Efficiency in Internet-of-Things Sensory Environments. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 473-487.	4.6	89
12	Physical Layer Network Coding and Precoding for the Two-Way Relay Channel in Cellular Systems. IEEE Transactions on Signal Processing, 2011, 59, 696-712.	5.3	80
13	Model Pruning Enables Efficient Federated Learning on Edge Devices. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10374-10386.	11.3	74
14	Distributed and Energy-Efficient Mobile Crowdsensing with Charging Stations by Deep Reinforcement Learning. IEEE Transactions on Mobile Computing, 2021, 20, 130-146.	5.8	71
15	Energy-Efficient Resource Management for Federated Edge Learning With CPU-GPU Heterogeneous Computing. IEEE Transactions on Wireless Communications, 2021, 20, 7947-7962.	9.2	64
16	Impact of Imperfect Channel State Information on Bi-Directional Communications With Relay Selection. IEEE Transactions on Signal Processing, 2011, 59, 5657-5662.	5.3	62
17	Cross-Layer Routing Using Cooperative Transmission in Vehicular Ad-hoc Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 571-581.	14.0	45
18	On the Design of Network Coding for Multiple Two-Way Relaying Channels. IEEE Transactions on Wireless Communications, 2011, 10, 1820-1832.	9.2	45

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19	Route Construction for Long Lifetime in VANETs. IEEE Transactions on Vehicular Technology, 2011, 60, 3450-3461.	6.3	42
20	Feasibility Condition for Interference Alignment With Diversity. IEEE Transactions on Information Theory, 2011, 57, 2902-2912.	2.4	42
21	A Non-Convex Distributed Optimization Framework and its Application to Wireless Ad-hoc Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4286-4296.	9.2	42
22	Architecture, mobility management, and quality of service for integrated 3G and WLAN networks. Wireless Communications and Mobile Computing, 2005, 5, 805-823.	1.2	38
23	A Special Case of Multi-Way Relay Channel: When Beamforming is not Applicable. IEEE Transactions on Wireless Communications, 2011, 10, 2046-2051.	9.2	37
24	Credible and energy-aware participant selection with limited task budget for mobile crowd sensing. Ad Hoc Networks, 2016, 43, 56-70.	5.5	36
25	Achievable Rates for Network Coding on the Exchange Channel. , 2007, , .		35
26	Proportional Fair Scheduling: Analytical Insight under Rayleigh Fading Environment. , 2008, , .		35
27	Expected throughput of the proportional fair scheduling over Rayleigh fading channels. IEEE Communications Letters, 2010, 14, 515-517.	4.1	33
28	Stable Clustering for Ad-Hoc Vehicle Networking. , 2017, , .		30
29	Joint Beamforming and Power Management for Nonregenerative MIMO Two-Way Relaying Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 4374-4383.	6.3	28
30	Relay-aided interference alignment: Feasibility conditions and algorithm. , 2010, , .		26
31	Energy-Efficient Event Detection by Participatory Sensing Under Budget Constraints. IEEE Systems Journal, 2017, 11, 2490-2501.	4.6	23
32	A Novel Cross-Layer QoS Routing Algorithm for Wireless Mesh Networks. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	18
33	Throughput Maximization in Mobile WSN Scheduling With Power Control and Rate Selection. IEEE Transactions on Wireless Communications, 2014, 13, 4066-4079.	9.2	18
34	Link residual-time estimation for VANET cross-layer design. , 2009, , .		17
35	Connectivity in Selfish, Cooperative Networks. IEEE Communications Letters, 2010, 14, 936-938.	4.1	17
36	Density-based optimal transmission for throughput enhancement in vehicular ad-hoc networks. , 2015, , .		17

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37	A General Framework of Wiretap Channel With Helping Interference and State Information. IEEE Transactions on Information Forensics and Security, 2014, 9, 182-195.	6.9	16
38	Cross-Layer Design for QoS in Wireless Mesh Networks. Wireless Personal Communications, 2009, 51, 593-613.	2.7	15
39	A stochastic geometry approach to transmission capacity in wireless cooperative networks. , 2009, , .		15
40	Clique-Based Utility Maximization in Wireless Mesh Networks. IEEE Transactions on Wireless Communications, 2011, 10, 948-957.	9.2	15
41	Asymptotic Analysis of Proportionally Fair Scheduling in Rayleigh Fading. IEEE Transactions on Wireless Communications, 2011, 10, 1764-1775.	9.2	15
42	A Generic Admission-Control Methodology for Packet Networks. IEEE Transactions on Wireless Communications, 2014, 13, 604-617.	9.2	15
43	Cooperative Orthogonal MIMO-Relaying for UWB Ad-Hoc Networks. , 2007, , .		14
44	Emulation-based study of dynamic service placement in mobile micro-clouds. , 2015, , .		14
45	A Cross-Layer Framework of QoS Routing and Distributed Scheduling for Mesh Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
46	Optimised CSMA/CA protocol for safety messages in vehicular ad-hoc networks. , 2017, , .		12
47	A Novel Distributed Scheduling Algorithm for Wireless Mesh Networks. , 2007, , .		11
48	Approaching MISO Upper Bound: Design of New Wireless Cooperative Transmission Protocols. IEEE Transactions on Wireless Communications, 2011, 10, 2725-2737.	9.2	11
49	Estimation of Link Quality and Residual Time in Vehicular Ad Hoc Networks. , 2008, , .		10
50	Cooperative Transmit-Power Estimation in MANETs. , 2008, , .		8
51	A distributed scheduling framework for multi-user diversity gain and quality of service in wireless mesh networks. IEEE Transactions on Wireless Communications, 2009, 8, 5904-5915.	9.2	8
52	Power Efficient Decode-and-Forward Cooperative Relaying. IEEE Wireless Communications Letters, 2012, 1, 444-447.	5.0	8
53	Recent Development in Public Transport Network Analysis From the Complex Network Perspective. IEEE Circuits and Systems Magazine, 2019, 19, 39-65.	2.3	8
54	A PHY/MAC Approach to Wireless Routing. , 2006, , .		7

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55	Residual energy-aware cooperative transmission (REACT) in wireless networks. , 2010, , .		7
56	Application of network coding in Wireless Sensor Networks for bridge monitoring. , 2012, , .		7
57	A Framework for Opportunistic Allocation of Wireless Resources. , 2007, , .		6
58	Utility-Based Gateway Deployment for Supporting Multi-Domain DTNs. , 2010, , .		6
59	Effect of Transport Models on Connectivity of Interbus Communication Networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2011, 15, 161-178.	4.2	6
60	Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. IEEE Transactions on Control of Network Systems, 2020, 7, 151-162.	3.7	6
61	Cross-layer routing optimization for wireless networks with cooperative diversity. , 2008, , .		5
62	Linear precoded cooperative transmission protocol for wireless broadcast channels. , 2009, , .		5
63	Performance tradeoffs by power control in wireless ad-hoc networks. , 2013, , .		5
64	On the Design of a Quality-Of-Service Driven Routing Protocol for Wireless Cooperative Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	4
65	A Distributed Scheduling Algorithm with QoS Provisions in Multi-hop Wireless Mesh Networks. , 2008, , .		4
66	Stochastic traffic and connectivity dynamics for vehicular ad-hoc networks in signalized road systems. , 2009, , .		4
67	Optimal transmission probabilities in VANETs with inhomogeneous node distribution. , 2009, , .		4
68	Linear Precoded Cooperative Transmission Protocol for Wireless Broadcast Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 3509-3515.	6.3	4
69	On Proportional Fair Scheduling in Multi-Antenna Wireless Mesh Networks–Theoretical Analysis. , 2008, , .		3
70	Enhancing congestion control with adaptive per-node airtime allocation for wireless sensor networks. , 2009, , .		3
71	Power efficiency of decode-and-forward cooperative relaying. , 2010, , .		3
72	Distributed and Real-Time Query Framework for Processing Participatory Sensing Data Streams. , 2015, , .		3

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73	Transmission Delay Analysis with Finite Coding Length in Wireless Cooperative Networks. , 2009, , .		2
74	A distributed opportunistic scheduling scheme for wireless network coding. , 2009, , .		2
75	An improved achievable secrecy rate for the relay-eavesdropper channel. , 2013, , .		2
76	Throughput Analysis of Opportunistic Scheduling under Rayleigh Fading Environment. , 2008, , .		1
77	Joint Beamforming and Power Allocation for MIMO Two-Way Relaying Channels. , 2011, , .		1
78	Generalized Sequential Slotted Amplify and Forward Strategy in Cooperative Communications. IEEE Transactions on Information Theory, 2011, 57, 1968-1974.	2.4	1
79	Delay analysis of network coding in linear wireless sensor networks. , 2013, , .		1
80	Capacity Analysis of Distributed Computing Systems with Multiple Resource Types. , 2020, , .		1
81	The multiuser Gaussian parallel relay network. , 2008, , .		0
82	Route Capacity Estimation Based Admission Control and QoS Routing for Mesh Networks. , 2009, , .		0
83	Interference masking for secure wireless broadcast communications. IET Communications, 2014, 8, 1184-1197.	2.2	0