King-Shan Lui

List of Publications by Year
in descending order

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89	1,087	566801 15	552369 26
papers	citations	h-index	g-index

89	89	89	933
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DelPHI: Wormhole Detection Mechanism for Ad Hoc Wireless Networks. , 0, , .		82
2	Routing With Topology Aggregation in Delay-Bandwidth Sensitive Networks. IEEE/ACM Transactions on Networking, 2004, 12, 17-29.	2.6	75
3	A distributed multihop time synchronization protocol for wireless sensor networks using Pairwise Broadcast Synchronization. IEEE Transactions on Wireless Communications, 2009, 8, 1764-1772.	6.1	67
4	Analysis of Topology Aggregation techniques for QoS routing. ACM Computing Surveys, 2007, 39, 7.	16.1	53
5	J-CAR: An efficient joint channel assignment and routing protocol for IEEE 802.11-based multi-channel multi-interface mobile Ad Hoc networks. IEEE Transactions on Wireless Communications, 2009, 8, 1706-1715.	6.1	53
6	A Power-Efficient Ultra-Wideband Pulse Generator Based on Multiple PM-IM Conversions. IEEE Photonics Technology Letters, 2010, 22, 1063-1065.	1.3	45
7	Efficient Communication of Sensors Monitoring Overhead Transmission Lines. IEEE Transactions on Smart Grid, 2012, 3, 1130-1136.	6.2	42
8	A Trust-Based Geographical Routing Scheme in Sensor Networks. , 2007, , .		41
9	Zero-Configuration Identity-Based Signcryption Scheme for Smart Grid. , 2010, , .		39
10	An Analytical Framework for Resource-Limited Small Satellite Networks. IEEE Communications Letters, 2016, 20, 388-391.	2.5	39
11	Advertising Interdomain QoS Routing Information. IEEE Journal on Selected Areas in Communications, 2004, 22, 1949-1964.	9.7	34
12	Wireless sensor networks scheduling for full angle coverage. Multidimensional Systems and Signal Processing, 2009, 20, 101-119.	1.7	32
13	Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. IEEE Transactions on Mobile Computing, 2012, 11, 264-277.	3.9	31
14	On Perimeter Coverage in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2156-2164.	6.1	27
15	Efficient On-Demand Image Transmission in Visual Sensor Networks. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.0	25
16	Localization in Sensor Networks with Limited Number of Anchors and Clustered Placement. , 2007, , .		24
17	End-to-End Delay Distribution Analysis for Stochastic Admission Control in Multi-hop Wireless Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1308-1320.	6.1	21
18	Performance comparison of scheduling algorithms for peer-to-peer collaborative file distribution. IEEE Journal on Selected Areas in Communications, 2007, 25, 146-154.	9.7	20

#	Article	IF	Citations
19	Achieving 360ï¿½ Angle Coverage with Minimum Transmission Cost in Visual Sensor Networks. , 2007, , .		19
20	Bandwidth-Aware High-Throughput Routing With Successive Interference Cancelation in Multihop Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5866-5877.	3.9	17
21	Improving APS with Anchor Selection in Anisotropic Sensor Networks. , 2005, , .		16
22	HyBloc: Localization in Sensor Networks with Adverse Anchor Placement. Sensors, 2009, 9, 253-280.	2.1	16
23	High-Speed Photonic Power-Efficient Ultra-Wideband Transceiver Based on Multiple PM-IM Conversions. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3344-3351.	2.9	13
24	Capacity Analysis of Two-Layered LEO/MEO Satellite Networks. , 2015, , .		13
25	Improving file distribution performance by grouping in peer-to-peer networks. IEEE Transactions on Network and Service Management, 2009, 6, 149-162.	3.2	12
26	Capacity of two-layered satellite networks. Wireless Networks, 2017, 23, 2651-2669.	2.0	12
27	Widest Spanning Tree for Multi-Channel Multi-Interface Wireless Mesh Networks. , 2008, , .		11
28	An MEC-Based DoS Attack Detection Mechanism for C-V2X Networks. , 2018, , .		11
29	A Descend-Based Evolutionary Approach to Enhance Position Estimation in Wireless Sensor Networks. , 2006, , .		10
30	SCAPACH: Scalable Password-Changing Protocol for Smart Grid Device Authentication. , 2013, , .		10
31	SELINDA: A secure, scalable and light-weight data collection protocol for smart grids. , 2013, , .		10
32	Joint Congestion Control and Scheduling in Wireless Networks With Network Coding. IEEE Transactions on Vehicular Technology, 2014, 63, 3304-3317.	3.9	10
33	Scheduling in P2P File Distribution - On Reducing the Average Distribution Time. , 2008, , .		8
34	Perimeter Coverage Scheduling in Wireless Sensor Networks Using Sensors with a Single Continuous Cover Range. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	8
35	Secure data collection in constrained tree-based Smart Grid environments. , 2014, , .		8
36	Efficient Event and Query Distribution in Sensor Networks. , 0, , .		7

#	Article	IF	Citations
37	Coding- and interference-aware routing protocol in wireless networks. Computer Communications, 2013, 36, 1745-1753.	3.1	7
38	Tailored Load-Aware Routing for Load Balance in Multilayered Satellite Networks. , 2015, , .		7
39	Balancing Image Quality and Energy Consumption in Visual Sensor Networks. , 0, , .		6
40	Analysis of distribution time of multiple files in a P2P network. Computer Networks, 2013, 57, 2900-2915.	3.2	6
41	QoS multicast routing with heterogeneous receivers. , 2003, , .		5
42	Routing algorithm for provisioning symmetric virtual private networks in the hose model. , 2005, , .		5
43	Image transmission in sensor networks. , 0, , .		5
44	Maximizing Broadcast Load in Multi-Channel Multi-Interface Wireless Mesh Networks. , 2008, , .		5
45	Interface Placement in Constructing Widest Spanning Tree for Multi-Channel Multi-Interface Wireless Mesh Networks. , 2009, , .		5
46	Improving data centric storage with diffuse caching in wireless sensor networks. Wireless Communications and Mobile Computing, 2009, 9, 347-356.	0.8	5
47	Practical and secure Machine-to-Machine data collection protocol in Smart Grid. , 2014, , .		5
48	On Optimization of Joint Channel Assignment and Routing in Mobile Ad Hoc Networks. , 2007, , .		4
49	An approximation algorithm for QoS routing with two additive constraints. Network Protocols (ICNP), Proceedings of the IEEE International Conference on, 2008, , .	0.0	4
50	A Novel Interference Management Scheme in Underlay D2D Communication. , 2015, , .		4
51	Queue performance of cognitive radio networks with general primary user activity model. IET Communications, 2015, 9, 1821-1828.	1.5	4
52	Link layer multi-priority frame forwarding. , 0, , .		3
53	Scheduling Algorithms for Peer-to-Peer Collaborative File Distribution. , 0, , .		3
54	Image and video processing in wireless sensor networks. Multidimensional Systems and Signal Processing, 2009, 20, 99-100.	1.7	3

#	Article	IF	Citations
55	Routing with QoS information aggregation in hierarchical networks. , 2009, , .		3
56	Joint spectrum-efficient routing and scheduling with successive interference cancellation in multihop wireless networks. Wireless Networks, 2016, 22, 1299-1314.	2.0	3
57	A Multicast Transmission Scheme in Small Cell Networks with Wireless Backhaul. , 2017, , .		3
58	A Blockchain-Based Vehicle Platoon Leader Updating Scheme. , 2020, , .		3
59	Provable security for cryptographic protocols â€“ exact analysis and engineering applications. Journal of Computer Security, 1998, 6, 23-52.	0.5	2
60	QRP02-4: Probabilistic Path Selection under Inaccuracy via Augmented Shortest Path Algorithms. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
61	Quality-of-Service Routing with Two Concave Constraints. , 2008, , .		2
62	Coding and Interference Aware Path Bandwidth Estimation in Multi-Hop Wireless Networks. , 2011, , .		2
63	Routing in Multi-Radio Multi-Channel Multi-Hop Wireless Mesh Networks with Bandwidth Guarantees. , 2011, , .		2
64	SIC aware high-throughput routing in multihop wireless networks. , 2013, , .		2
65	Spectrum-efficient routing algorithms with successive interference cancellation in multi-hop wireless networks. , 2014, , .		2
66	Scheduling in Dense Small Cells With Successive Interference Cancellation. IEEE Communications Letters, 2014, 18, 1035-1038.	2.5	2
67	Maximum lifetime routing with guaranteed throughput in LEO satellite networks. , 2015, , .		2
68	Applying Instructional Design in Engineering Education and Industrial Training: An Integrative Review. , 2019, , .		2
69	Physical Layer Security of OFDM Communication Using Artificial Pilot Noise. , 2019, , .		2
70	Hybrid Approach for Localization in Anisotropic Sensor Networks. , 0, , .		1
71	An Adaptive Framework of Multiple Schemes for Event and Query Distribution in Wireless Sensor Networks. , 2007, , .		1
72	HEA-Loc: A Robust Localization Algorithm for Sensor Networks of Diversified Topologies. , 2010, , .		1

#	Article	IF	Citations
73	On End-to-End Delay of Multi-Hop Wireless Networks. , 2013, , .		1
74	A MDP-Based Dynamic Scheduling Scheme for Deadline Constrained Content Distribution in Wireless Heterogeneous Network. , 2015, , .		1
75	A Spectral Efficiency Guaranteed Caching Scheme in Small Cell Networks. , 2018, , .		1
76	BGP Ingress-to-Egress Route Configuration in a Capacity-constrained AS. , 0, , .		0
77	BlueGame - a bluetooth enabled multi-player and multi-platform game: an experience report. , 0, , .		0
78	2-Line Segment Topology Aggregation Mechanism for QoS Routing. , 2006, , .		0
79	Efficient Selective Image Transmission in Visual Sensor Networks. IEEE Vehicular Technology Conference, 2007, , .	0.2	0
80	Stochastically Guaranteed Routing for Additive Link Metrics with Unknown Distributions. IEEE International Workshop on Quality of Service, 2008, , .	0.0	0
81	GOP-Based Geographic Routing Scheme in Wireless Sensor Networks. , 2008, , .		0
82	Perimeter coverage made practical in wireless sensor networks. , 2009, , .		0
83	On securing perimeter coverage in wireless sensor networks. , 2009, , .		0
84	On perimeter coverage scheduling in wireless sensor networks. , 2009, , .		0
85	Hierarchical QoS Routing in Next Generation Optical Networks. Journal of Lightwave Technology, 2010, 28, 2129-2138.	2.7	0
86	Novel bandwidth strategy for wireless P2P file sharing. , 2011, , .		0
87	Scheduling in Multihop Wireless Networks With Zero-Forcing Precoding. IEEE Transactions on Vehicular Technology, 2015, 64, 5817-5830.	3.9	0
88	Latency-constrained content dissemination scheme in vehicular networks. , 2017, , .		0
89	Resilient Data Collection Protocol with In-Network Processing for Oil and Gas Refinery Networks. , 2018, , .		0