King-Shan Lui

List of Publications by Year
in descending order

89 papers	1,087 citations	567281 15 h-index	552781 26 g-index
89 all docs	89 docs citations	89 times ranked	933 citing authors

#	Article	IF	Citations
1	A Blockchain-Based Vehicle Platoon Leader Updating Scheme. , 2020, , .		3
2	Applying Instructional Design in Engineering Education and Industrial Training: An Integrative Review. , 2019, , .		2
3	Physical Layer Security of OFDM Communication Using Artificial Pilot Noise. , 2019, , .		2
4	An MEC-Based DoS Attack Detection Mechanism for C-V2X Networks. , 2018, , .		11
5	Resilient Data Collection Protocol with In-Network Processing for Oil and Gas Refinery Networks. , 2018, , .		0
6	A Spectral Efficiency Guaranteed Caching Scheme in Small Cell Networks. , 2018, , .		1
7	Capacity of two-layered satellite networks. Wireless Networks, 2017, 23, 2651-2669.	3.0	12
8	A Multicast Transmission Scheme in Small Cell Networks with Wireless Backhaul. , 2017, , .		3
9	Latency-constrained content dissemination scheme in vehicular networks. , 2017, , .		0
10	An Analytical Framework for Resource-Limited Small Satellite Networks. IEEE Communications Letters, 2016, 20, 388-391.	4.1	39
11	Joint spectrum-efficient routing and scheduling with successive interference cancellation in multihop wireless networks. Wireless Networks, 2016, 22, 1299-1314.	3.0	3
12	A Novel Interference Management Scheme in Underlay D2D Communication. , 2015, , .		4
13	Maximum lifetime routing with guaranteed throughput in LEO satellite networks. , 2015, , .		2
14	Tailored Load-Aware Routing for Load Balance in Multilayered Satellite Networks. , 2015, , .		7
15	A MDP-Based Dynamic Scheduling Scheme for Deadline Constrained Content Distribution in Wireless Heterogeneous Network. , 2015, , .		1
16	Queue performance of cognitive radio networks with general primary user activity model. IET Communications, 2015, 9, 1821-1828.	2.2	4
17	Scheduling in Multihop Wireless Networks With Zero-Forcing Precoding. IEEE Transactions on Vehicular Technology, 2015, 64, 5817-5830.	6.3	0
18	Bandwidth-Aware High-Throughput Routing With Successive Interference Cancelation in Multihop Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5866-5877.	6.3	17

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19	Capacity Analysis of Two-Layered LEO/MEO Satellite Networks. , 2015, , .		13
20	Practical and secure Machine-to-Machine data collection protocol in Smart Grid. , 2014, , .		5
21	Spectrum-efficient routing algorithms with successive interference cancellation in multi-hop wireless networks. , 2014, , .		2
22	Secure data collection in constrained tree-based Smart Grid environments. , 2014, , .		8
23	End-to-End Delay Distribution Analysis for Stochastic Admission Control in Multi-hop Wireless Networks. IEEE Transactions on Wireless Communications, 2014, 13, 1308-1320.	9.2	21
24	Joint Congestion Control and Scheduling in Wireless Networks With Network Coding. IEEE Transactions on Vehicular Technology, 2014, 63, 3304-3317.	6.3	10
25	Scheduling in Dense Small Cells With Successive Interference Cancellation. IEEE Communications Letters, 2014, 18, 1035-1038.	4.1	2
26	Analysis of distribution time of multiple files in a P2P network. Computer Networks, 2013, 57, 2900-2915.	5.1	6
27	Coding- and interference-aware routing protocol in wireless networks. Computer Communications, 2013, 36, 1745-1753.	5.1	7
28	SCAPACH: Scalable Password-Changing Protocol for Smart Grid Device Authentication. , 2013, , .		10
29	SELINDA: A secure, scalable and light-weight data collection protocol for smart grids. , 2013, , .		10
30	On End-to-End Delay of Multi-Hop Wireless Networks. , 2013, , .		1
31	SIC aware high-throughput routing in multihop wireless networks. , 2013, , .		2
32	Efficient Communication of Sensors Monitoring Overhead Transmission Lines. IEEE Transactions on Smart Grid, 2012, 3, 1130-1136.	9.0	42
33	Hop-by-Hop Routing in Wireless Mesh Networks with Bandwidth Guarantees. IEEE Transactions on Mobile Computing, 2012, 11, 264-277.	5.8	31
34	Coding and Interference Aware Path Bandwidth Estimation in Multi-Hop Wireless Networks. , 2011, , .		2
35	Routing in Multi-Radio Multi-Channel Multi-Hop Wireless Mesh Networks with Bandwidth Guarantees. , 2011, , .		2
36	Novel bandwidth strategy for wireless P2P file sharing. , 2011, , .		0

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37	Perimeter Coverage Scheduling in Wireless Sensor Networks Using Sensors with a Single Continuous Cover Range. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	8
38	HEA-Loc: A Robust Localization Algorithm for Sensor Networks of Diversified Topologies. , 2010, , .		1
39	On Perimeter Coverage in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2156-2164.	9.2	27
40	A Power-Efficient Ultra-Wideband Pulse Generator Based on Multiple PM-IM Conversions. IEEE Photonics Technology Letters, 2010, 22, 1063-1065.	2.5	45
41	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.	4.6	13
42	Zero-Configuration Identity-Based Signcryption Scheme for Smart Grid. , 2010, , .		39
43	Hierarchical QoS Routing in Next Generation Optical Networks. Journal of Lightwave Technology, 2010, 28, 2129-2138.	4.6	0
44	Interface Placement in Constructing Widest Spanning Tree for Multi-Channel Multi-Interface Wireless Mesh Networks. , 2009, , .		5
45	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.	9.2	53
46	HyBloc: Localization in Sensor Networks with Adverse Anchor Placement. Sensors, 2009, 9, 253-280.	3.8	16
47	Improving file distribution performance by grouping in peer-to-peer networks. IEEE Transactions on Network and Service Management, 2009, 6, 149-162.	4.9	12
48	Wireless sensor networks scheduling for full angle coverage. Multidimensional Systems and Signal Processing, 2009, 20, 101-119.	2.6	32
49	Image and video processing in wireless sensor networks. Multidimensional Systems and Signal Processing, 2009, 20, 99-100.	2.6	3
50	Improving data centric storage with diffuse caching in wireless sensor networks. Wireless Communications and Mobile Computing, 2009, 9, 347-356.	1.2	5
51	A distributed multihop time synchronization protocol for wireless sensor networks using Pairwise Broadcast Synchronization. IEEE Transactions on Wireless Communications, 2009, 8, 1764-1772.	9.2	67
52	Perimeter coverage made practical in wireless sensor networks. , 2009, , .		0
53	On securing perimeter coverage in wireless sensor networks. , 2009, , .		0
54	On perimeter coverage scheduling in wireless sensor networks. , 2009, , .		0

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55	Routing with QoS information aggregation in hierarchical networks. , 2009, , .		3
56	Stochastically Guaranteed Routing for Additive Link Metrics with Unknown Distributions. IEEE International Workshop on Quality of Service, 2008, , .	0.0	0
57	Scheduling in P2P File Distribution - On Reducing the Average Distribution Time. , 2008, , .		8
58	Maximizing Broadcast Load in Multi-Channel Multi-Interface Wireless Mesh Networks. , 2008, , .		5
59	Quality-of-Service Routing with Two Concave Constraints. , 2008, , .		2
60	An approximation algorithm for QoS routing with two additive constraints. Network Protocols (ICNP), Proceedings of the IEEE International Conference on, 2008, , .	0.0	4
61	Widest Spanning Tree for Multi-Channel Multi-Interface Wireless Mesh Networks. , 2008, , .		11
62	GOP-Based Geographic Routing Scheme in Wireless Sensor Networks. , 2008, , .		0
63	Analysis of Topology Aggregation techniques for QoS routing. ACM Computing Surveys, 2007, 39, 7.	23.0	53
64	Localization in Sensor Networks with Limited Number of Anchors and Clustered Placement. , 2007, , .		24
65	An Adaptive Framework of Multiple Schemes for Event and Query Distribution in Wireless Sensor Networks. , 2007, , .		1
66	A Trust-Based Geographical Routing Scheme in Sensor Networks. , 2007, , .		41
67	On Optimization of Joint Channel Assignment and Routing in Mobile Ad Hoc Networks. , 2007, , .		4
68	Efficient Selective Image Transmission in Visual Sensor Networks. IEEE Vehicular Technology Conference, 2007, , .	0.4	0
69	Achieving 360ï¿½ Angle Coverage with Minimum Transmission Cost in Visual Sensor Networks. , 2007, , .		19
70	Performance comparison of scheduling algorithms for peer-to-peer collaborative file distribution. IEEE Journal on Selected Areas in Communications, 2007, 25, 146-154.	14.0	20
71	A Descend-Based Evolutionary Approach to Enhance Position Estimation in Wireless Sensor Networks. , 2006, , .		10
72	Efficient On-Demand Image Transmission in Visual Sensor Networks. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	25

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73	QRP02-4: Probabilistic Path Selection under Inaccuracy via Augmented Shortest Path Algorithms. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
74	2-Line Segment Topology Aggregation Mechanism for QoS Routing. , 2006, , .		0
75	Routing algorithm for provisioning symmetric virtual private networks in the hose model. , 2005, , .		5
76	Improving APS with Anchor Selection in Anisotropic Sensor Networks. , 2005, , .		16
77	Routing With Topology Aggregation in Delay-Bandwidth Sensitive Networks. IEEE/ACM Transactions on Networking, 2004, 12, 17-29.	3.8	75
78	Advertising Interdomain QoS Routing Information. IEEE Journal on Selected Areas in Communications, 2004, 22, 1949-1964.	14.0	34
79	QoS multicast routing with heterogeneous receivers. , 2003, , .		5
80	Provable security for cryptographic protocols â€" exact analysis and engineering applications. Journal of Computer Security, 1998, 6, 23-52.	0.8	2
81	Link layer multi-priority frame forwarding. , 0, , .		3
82	Image transmission in sensor networks. , 0, , .		5
83	Efficient Event and Query Distribution in Sensor Networks. , 0, , .		7
84	Scheduling Algorithms for Peer-to-Peer Collaborative File Distribution. , 0, , .		3
85	BGP Ingress-to-Egress Route Configuration in a Capacity-constrained AS. , 0, , .		0
86	DelPHI: Wormhole Detection Mechanism for Ad Hoc Wireless Networks. , 0, , .		82
87	BlueGame - a bluetooth enabled multi-player and multi-platform game: an experience report. , 0, , .		0
88	Hybrid Approach for Localization in Anisotropic Sensor Networks. , 0, , .		1
89	Balancing Image Quality and Energy Consumption in Visual Sensor Networks. , 0, , .		6