

Winston K G Seah

List of Publications by Year in descending order

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173
papers

3,625
citations

304743

22
h-index

243625

44
g-index

176
all docs

176
docs citations

176
times ranked

3315
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of techniques and challenges in underwater localization. Ocean Engineering, 2011, 38, 1663-1676.	4.3	420
2	Localization in underwater sensor networks. , 2006, , .		269
3	Wireless sensor networks powered by ambient energy harvesting (WSN-HEAP) - Survey and challenges. , 2009, , .		266
4	Reliability in wireless sensor networks: A survey and challenges ahead. Computer Networks, 2015, 79, 166-187.	5.1	259
5	A review of nanogrid topologies and technologies. Renewable and Sustainable Energy Reviews, 2017, 67, 760-775.	16.4	174
6	Design and performance analysis of MAC schemes for Wireless Sensor Networks Powered by Ambient Energy Harvesting. Ad Hoc Networks, 2011, 9, 300-323.	5.5	158
7	Opportunistic routing in wireless sensor networks powered by ambient energy harvesting. Computer Networks, 2010, 54, 2943-2966.	5.1	98
8	Security threats and solutions in MANETs: A case study using AODV and SAODV. Journal of Network and Computer Applications, 2012, 35, 1249-1259.	9.1	96
9	Opportunistic routing "A review and the challenges ahead. Computer Networks, 2011, 55, 3592-3603.	5.1	81
10	An Area Localization Scheme for Underwater Sensor Networks. , 2006, , .		76
11	Multipath Virtual Sink Architecture for Underwater Sensor Networks. , 2006, , .		73
12	Improving protocol robustness in ad hoc networks through cooperative packet caching and shortest multipath routing. IEEE Transactions on Mobile Computing, 2005, 4, 443-457.	5.8	44
13	Decentralised IoT Architecture for Efficient Resources Utilisation. IFAC-PapersOnLine, 2018, 51, 168-173.	0.9	43
14	Quality-enabled decentralized IoT architecture with efficient resources utilization. Robotics and Computer-Integrated Manufacturing, 2021, 67, 102001.	9.9	40
15	Application Domain-Based Overview of IoT Network Traffic Characteristics. ACM Computing Surveys, 2021, 53, 1-33.	23.0	39
16	Rare Event Detection and Propagation in Wireless Sensor Networks. ACM Computing Surveys, 2016, 48, 1-22.	23.0	38
17	Multi-stage AUV-aided Localization for Underwater Wireless Sensor Networks. , 2011, , .		37
18	Routing and Relay Node Placement in Wireless Sensor Networks Powered by Ambient Energy Harvesting. , 2009, , .		36

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19	A performance study on synchronicity and neighborhood size in particle swarm optimization. <i>Soft Computing</i> , 2013, 17, 1019-1030.	3.6	36
20	A Multi-hop ARQ Protocol for Underwater Acoustic Networks. , 2007, , .		33
21	Game-Theoretic Approach for Improving Cooperation in Wireless Multihop Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010, 40, 559-574.	5.0	32
22	Improving fairness among TCP flows crossing wireless ad hoc and wired networks. , 2003, , .		31
23	Performance analysis of mobility-based d-hop (MobDHop) clustering algorithm for mobile ad hoc networks. <i>Computer Networks</i> , 2006, 50, 3375-3399.	5.1	31
24	Impact of Power Control in Wireless Sensor Networks Powered by Ambient Energy Harvesting (WSN-HEAP) for Railroad Health Monitoring. , 2009, , .		31
25	How Long is the Lifetime of a Wireless Sensor Network?. , 2009, , .		31
26	Scalable Architecture for SDN Traffic Classification. <i>IEEE Systems Journal</i> , 2018, 12, 3203-3214.	4.6	31
27	A survey of routing and channel assignment in multi-channel multi-radio WMNs. <i>Journal of Network and Computer Applications</i> , 2016, 65, 120-130.	9.1	30
28	A new multi classifier system using entropy-based features in DDoS attack detection. , 2018, , .		29
29	Queueing analysis of software defined network with realistic OpenFlow-based switch model. <i>Computer Networks</i> , 2019, 164, 106892.	5.1	28
30	Developing a traffic classification platform for enterprise networks with SDN: Experiences & lessons learned. , 2015, , .		27
31	Multi-robot mobility enhanced hop-count based localization in ad hoc networks. <i>Robotics and Autonomous Systems</i> , 2007, 55, 244-252.	5.1	26
32	Wireless sensing without sensors—an experimental study of motion/intrusion detection using RF irregularity. <i>Measurement Science and Technology</i> , 2010, 21, 124007.	2.6	25
33	Multipath virtual sink architecture for wireless sensor networks in harsh environments. , 2006, , .		24
34	Cooperation stimulation mechanisms for wireless multihop networks: A survey. <i>Journal of Network and Computer Applications</i> , 2015, 54, 88-106.	9.1	24
35	Queueing Analysis of Software Defined Network with Realistic OpenFlow-Based Switch Model. , 2016, , .		24
36	Modelling Software-Defined Networking: Software and hardware switches. <i>Journal of Network and Computer Applications</i> , 2018, 122, 24-36.	9.1	24

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37	Wireless sensing without sensors — An experimental approach. , 2009, , .		23
38	A Localization Method Avoiding Flip Ambiguities for Micro-UAVs with Bounded Distance Measurement Errors. IEEE Transactions on Mobile Computing, 2019, 18, 1718-1730.	5.8	23
39	Performance comparison of caching strategies for information-centric IoT. , 2018, , .		22
40	Random Asynchronous PSO. , 2011, , .		20
41	A performance study on synchronous and asynchronous updates in particle swarm optimization. , 2011, , .		20
42	Multi-tier probabilistic polling in Wireless Sensor Networks powered by energy harvesting. , 2011, , .		20
43	Forwarding Schemes for EM-based Wireless Nanosensor Networks in the Terahertz Band. , 2015, , .		19
44	Efficient Data Delivery with Packet Cloning for Underwater Sensor Networks. , 2007, , .		18
45	Event reliability in Wireless Sensor Networks. , 2011, , .		18
46	On-Demand Probabilistic Polling for Nanonetworks Under Dynamic IoT Backhaul Network Conditions. IEEE Internet of Things Journal, 2017, 4, 2217-2227.	8.7	18
47	Modelling Software-Defined Networking: Switch Design with Finite Buffer and Priority Queueing. , 2017, , .		18
48	LEB-MAC: Load and energy balancing MAC protocol for energy harvesting powered wireless sensor networks. , 2014, , .		16
49	Making queueing theory more palatable to SDN/OpenFlow-based network practitioners. , 2016, , .		16
50	COVID-19 vaccine strategies for Aotearoa New Zealand: a mathematical modelling study. The Lancet Regional Health - Western Pacific, 2021, 15, 100256.	2.9	15
51	An enhanced underwater positioning system to support deepwater installations. , 2009, , .		14
52	Implementation and evaluation of multihop ARQ for reliable communications in underwater acoustic networks. , 2009, , .		14
53	TTL-Based Efficient Forwarding for Nanonetworks With Multiple Coordinated IoT Gateways. IEEE Internet of Things Journal, 2018, 5, 1807-1815.	8.7	14
54	Can Machine Learning Techniques Be Effectively Used in Real Networks against DDoS Attacks?. , 2018, , .		14

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55	An Online Offline Framework for Anomaly Scoring and Detecting New Traffic in Network Streams. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5166-5181.	5.7	14
56	Exploiting radio irregularity in the Internet of Things for automated people counting. , 2011, , .		13
57	Performance evaluation of routing metrics for community Wireless Mesh Networks. , 2011, , .		13
58	Design of an active radio frequency powered multi-hop wireless sensor network. , 2012, , .		13
59	UbiTouch. , 2016, , .		13
60	Exploring Cognitive Techniques for Bandwidth Management in Integrated Underwater Acoustic Systems. , 2008, , .		12
61	A performance study on the effects of noise and evaporation in Particle Swarm Optimization. , 2012, , .		12
62	Outdated Relay Selection in Two-Way Relay Network. IEEE Transactions on Vehicular Technology, 2013, 62, 4051-4057.	6.3	12
63	Data delivery scheme for Wireless Sensor Network powered by RF energy harvesting. , 2013, , .		12
64	Heavy Hitter Detection and Identification in Software Defined Networking. , 2016, , .		12
65	Busting myths of energy models for wireless sensor networks. Electronics Letters, 2016, 52, 1412-1414.	1.0	12
66	A survey on network forwarding in Software-Defined Networking. Journal of Network and Computer Applications, 2021, 176, 102947.	9.1	12
67	Network-wide virtual firewall using SDN/OpenFlow. , 2016, , .		11
68	Use of Maximum Power Point Tracking Signal for Instantaneous Management of Thermostatically Controlled Loads in a DC Nanogrid. IEEE Transactions on Smart Grid, 2018, 9, 6140-6148.	9.0	11
69	A Hybrid Online Offline System for Network Anomaly Detection. , 2019, , .		11
70	Clustering overhead and convergence time analysis of the mobility-based multi-hop clustering algorithm for mobile ad hoc networks. Journal of Computer and System Sciences, 2006, 72, 1144-1155.	1.2	10
71	Performance of pressure routing in drifting 3D underwater sensor networks for deep water monitoring. , 2012, , .		10
72	A Scalable Priority-Based Multi-Path Routing Protocol for Wireless Sensor Networks. International Journal of Wireless Information Networks, 2005, 12, 23-33.	2.7	9

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73	Improving link failure detection and response in IEEE 802.11 wireless ad hoc networks. , 2010, , .		9
74	Research in Energy Harvesting Wireless Sensor Networks and the Challenges Ahead. Springer Series on Chemical Sensors and Biosensors, 2012, , 73-93.	0.5	9
75	Combined Communication and Computing Resource Scheduling in Sliced 5G Multi-Access Edge Computing Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 3144-3154.	6.3	9
76	Experimental Study of Voice over IP Services over Broadband Wireless Networks. , 2008, , .		8
77	Adaptive cluster-based approach for reducing routing overheads in MANETs. , 2010, , .		8
78	Coverage preservation in energy harvesting wireless sensor networks for rare events. , 2015, , .		8
79	Teaching project management using a real-world group project. , 2015, , .		8
80	Changeover prediction model for improving handover support in campus area WLAN. , 2016, , .		8
81	Modeling and Analysis. , 2016, , .		8
82	TTL-based efficient forwarding for the backhaul tier in nanonetworks. , 2017, , .		8
83	Pulse Arrival Scheduling for Nanonetworks Under Limited IoT Access Bandwidth. , 2017, , .		8
84	Easy as ABC. , 2019, , .		8
85	VoIP Capacity over Wireless Mesh Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	6
86	Experimental Analysis of Area Localization Scheme for Sensor Networks. , 2007, , .		6
87	A Combinatorics-Based Wakeup Scheme for Target Tracking in Wireless Sensor Networks. , 2007, , .		6
88	Efficient and secure data aggregation for smart metering networks. , 2013, , .		6
89	Communication Architecture for Smart Grid Applications. , 2018, , .		6
90	Analytical Modelling of Software and Hardware Switches with Internal Buffer in Software-Defined Networks. Journal of Network and Computer Applications, 2019, 136, 22-37.	9.1	6

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91	Knowledge Discovery: Can It Shed New Light on Threshold Definition for Heavy-Hitter Detection?. Journal of Network and Systems Management, 2021, 29, 1.	4.9	6
92	Intelligent Sensor Monitoring For Industrial Underwater Applications. , 2006, , .		5
93	Hybrid Mobile Wireless Sensor Network Cooperative Localization. , 2007, , .		5
94	Dual wakeup design for wireless sensor networks. Computer Communications, 2009, 32, 1-13.	5.1	5
95	Probabilistic data collection protocols for energy harvesting wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2012, 11, 82.	0.5	5
96	Event-driven energy-harvesting wireless sensor network for structural health monitoring. , 2013, , .		5
97	WiFi Network Access Control for IoT Connectivity with Software Defined Networking. , 2017, , .		5
98	Heavy-Hitter Flow Identification in Data Centre Networks Using Packet Size Distribution and Template Matching. , 2019, , .		5
99	A Bayesian Approach To Distributed Anomaly Detection In Edge AI Networks. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 3306-3320.	5.6	5
100	Super nodes positioning for P2P IP telephony over wireless ad-hoc networks. , 2007, , .		4
101	Efficient P2P Service Control Overlay Construction to Support IP Telephony Services Over ad-hoc Networks. , 2007, , .		4
102	Quantifying selfishness and fairness in wireless multihop networks. , 2013, , .		4
103	A goodput distribution model for IEEE 802.11 wireless mesh networks. , 2015, , .		4
104	On-demand efficient polling for nanonetworks under dynamic IoT backhaul network conditions. , 2016, , .		4
105	Trust-based Scheme for Cheating and Collusion Detection in Wireless Multihop Networks. , 2017, , .		4
106	Guest Editorial Special Issue on Wearable Sensor-Based Big Data Analysis for Smart Health. IEEE Internet of Things Journal, 2019, 6, 1293-1297.	8.7	4
107	Evaluation of Theoretical Interference Estimation Metrics for Dense Wi-Fi Networks. , 2021, , .		4
108	Limiting Control Overheads Based on Link Stability for Improved Performance in Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2005, , 258-268.	1.3	3

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109	Multi-robot concurrent learning of cooperative behaviours for the tracking of multiple moving targets. International Journal of Vehicle Autonomous Systems, 2006, 4, 196.	0.2	3
110	Performance Modeling of MANET Interconnectivity. International Journal of Wireless Information Networks, 2006, 13, 115-126.	2.7	3
111	Wakeup Scheme for Ocean Monitoring Underwater Sensor Networks (UWSN). , 2006, , .		3
112	Mobility Modeling of Rush Hour Traffic for Multihop Routing in Mobile Wireless Networks. , 2006, , .		3
113	Adaptive Data Delivery for Underwater Sensor Networks. , 2007, , .		3
114	DS/CDMA throughput of a multi-hop sensor network in a Rayleigh fading underwater acoustic channel. Concurrency Computation Practice and Experience, 2007, 19, 1129-1140.	2.2	3
115	Efficient neighbour discovery algorithm for maritime mesh networks with directional antennas. , 2008, , .		3
116	A comparison between temperature and current sensing in photovoltaic maximum power point tracking. , 2014, , .		3
117	Distributed generation nanogrid load control system. , 2015, , .		3
118	Cluster-centric medium access control for WSNs in structural health monitoring. , 2015, , .		3
119	Opportunistic Geographic Forwarding in Wireless Sensor Networks for Critical Rare Events. , 2016, , .		3
120	Equivalent forwarding set evaluation in software defined networking. , 2017, , .		3
121	Full encapsulation or internal buffering in OpenFlow based hardware switches?. Computer Networks, 2020, 167, 107033.	5.1	3
122	Evaporation Mechanisms for Particle Swarm Optimization. Lecture Notes in Computer Science, 2012, , 238-247.	1.3	3
123	Quality of Service in Mobile Ad Hoc Networks. , 2008, , 441-448.		3
124	Ring-based forwarder selection to improve packet delivery in ultra-dense networks. , 2022, , .		3
125	A method to efficiently integrate Internet Telephony call signaling with dynamic resource negotiation. Computer Networks, 2006, 50, 3334-3352.	5.1	2
126	Cross-layer interaction study on IEEE 802.11e in wireless ad hoc networks. , 2008, , .		2

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127	Interference Management for Medium Access Control in CDMA Underwater Acoustic Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	2
128	Performance Analysis of Data Delivery Schemes for a Multi-Sink Wireless Sensor Network. , 2008, , .		2
129	Robust airborne wireless backbone using low-cost UAVs and commodity WiFi technology. , 2008, , .		2
130	Outage probability of outdated relay selection in two-way relay network. , 2013, , .		2
131	Instantaneous nanogrid control using maximum power point tracking signal. , 2016, , .		2
132	Recharge-as-Reward Mechanism to Incentivize Cooperative Nodes in Mobile Ad Hoc Networks. , 2016, , .		2
133	Autonomic link management in wireless backhaul networks with OpenFlow and traffic prediction. , 2017, , .		2
134	Coverage Preservation with Rapid Forwarding in Energy-Harvesting Wireless Sensor Networks for Critical Rare Events. Transactions on Embedded Computing Systems, 2018, 17, 1-25.	2.9	2
135	Performance evaluation of equivalent forwarding sets in software defined networking. Journal of Network and Computer Applications, 2020, 153, 102532.	9.1	2
136	Seamless Multi-hop Handover in IPv6 Based Hybrid Wireless Networks. Lecture Notes in Computer Science, 2005, , 884-893.	1.3	2
137	A Study of MAC Schemes for Wireless Sensor Networks Powered by Ambient Energy Harvesting. , 2008, , .		2
138	An Experimental Study on Connectivity and Topology Control in Real Multi-hop Wireless Networks. , 2008, , .		2
139	Title is missing!. Telecommunication Systems, 1998, 10, 243-268.	2.5	1
140	Performance analysis for voice and data integration in hybrid fiber/coax networks. Computer Networks, 2001, 36, 323-341.	5.1	1
141	An Energy Efficient Topology Management Scheme for Underwater Acoustic Sensor Network Using Connected Dominating Sets. , 2006, , .		1
142	A Comparison of Two Data Delivery Schemes for Underwater Sensor Networks. , 2007, , .		1
143	Sensor Traffic Patterns in Target Tracking Networks. , 2007, , .		1
144	An in-situ measurement approach for IEEE 802.11 wireless multihop networks. , 2009, , .		1

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145	Improved area estimates for localization in wireless sensor networks. , 2010, , .		1
146	Inferring human activity using overcomplete dictionary based pattern recognition. , 2011, , .		1
147	Measurement-based link scheduling for maritime mesh networks with directional antennas. International Journal of Network Management, 2011, 21, 83-105.	2.2	1
148	Managing peak demand using direct load monitoring and control. , 2013, , .		1
149	TARC: Throughput-Aware Random Scalable Clustering for Network MIMO. , 2015, , .		1
150	Fitness evaluation for channel assignment algorithms in IEEE 802.11 WMNs. , 2017, , .		1
151	Deterministic Confidence Interval Estimation of Networking Traffic in SDN. , 2017, , .		1
152	Leveraging Localisation Techniques for In-Network Duplicate Event Data Detection and Filtering. , 2017, , .		1
153	A combined control strategy for load management within an interconnected nanogrid network. , 2017, , .		1
154	Modelling Switches with Internal Buffering in Software-Defined Networks. , 2018, , .		1
155	ElasticWISP: Energy-Proportional WISP Networks. , 2020, , .		1
156	Towards threshold-agnostic heavy-chatter classification. International Journal of Network Management, 2022, 32, e2188.	2.2	1
157	Waking Up Sensor Networks. , 2008, , 670-677.		1
158	Reassessing caching performance in information-centric IoT. Internet of Things (Netherlands), 2022, 18, 100479.	7.7	1
159	Range-free Localization Using Dynamic Hop Size Computation in Wireless Sensor Networks. , 2006, , .		0
160	An energy efficient cooperative optimal harvesting algorithm for Mobile Sensor Networks. , 2008, , .		0
161	Multipath Virtual Sink Architecture for Underwater Sensor Networks. , 2010, , 71-106.		0
162	Topology broadcast in maritime mesh networks with directional antennas - A practical approach. , 2010, , .		0

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163	Utilizing the inherent properties of preamble sequences for load balancing in cellular networks. , 2011, , .		0
164	Topology Skewing for Improved Route Selection in Wireless Multi-hop Networks. , 2012, , .		0
165	P2P IP Telephony over wireless ad-hoc networks. Peer-to-Peer Networking and Applications, 2012, 5, 363-383.	3.9	0
166	Security analysis of a protocol for pollution attack detection. , 2013, , .		0
167	TARC: Throughput-Aware Random Scalable Clustering for Network MIMO. , 2014, , .		0
168	Instantaneous control of a DC water heater for a PV system. , 2016, , .		0
169	GBooster: Towards Acceleration of GPU-Intensive Mobile Applications. , 2017, , .		0
170	Multi-Gateway Polling for Nanonetworks under Dynamic IoT Backhaul Bandwidth. , 2018, , .		0
171	Validating the Accuracy of Analytical Modelling in Software Defined Networks. , 2019, , .		0
172	Angular Histogram-Based Visualisation of Network Traffic Flow Measurement Data. Advances in Intelligent Systems and Computing, 2020, , 353-365.	0.6	0
173	Humans Learning from Machines: Data Science Meets Network Management. , 2021, , .		0