

Hyung-sin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103 papers	1,376 citations	15 h-index	33 g-index
145 ext. papers	1,741 ext. citations	4.6 avg, IF	5.07 L-index

#	Paper	IF	Citations
103	RPLIE: RPL for indoor environments under midterm link fluctuations. <i>Journal of Communications and Networks</i> , 2021 , 23, 201-211	4.1	1
102	Factors related to children's tooth-brushing at different ages: an application of the theory of planned behavior. <i>Psychology, Health and Medicine</i> , 2021 , 26, 228-241	2.1	3
101	R-SplitC: Collision minimization for cellular communication in unlicensed spectrum. <i>Journal of Communications and Networks</i> , 2021 , 1-11	4.1	1
100	Mobility-Aware Analysis of Millimeter Wave Communication Systems With Blockages. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5901-5912	6.8	8
99	. <i>IEEE Access</i> , 2020 , 8, 67147-67165	3.5	15
98	PC-RPL. <i>ACM Transactions on Sensor Networks</i> , 2020 , 16, 1-32	2.9	9
97	AdaptaBLE: Adaptive control of data rate, transmission power, and connection interval in bluetooth low energy. <i>Computer Networks</i> , 2020 , 181, 107520	5.4	8
96	OST: On-Demand TSCH Scheduling with Traffic-Awareness 2020 ,		7
95	Performance-Cost Tradeoff of Using Mobile Roadside Units for V2X Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 9049-9059	6.8	17
94	TESLA: Traffic-Aware Elastic Slotframe Adjustment in TSCH Networks. <i>IEEE Access</i> , 2019 , 7, 130468-130483	3.3	13
93	5G K-SimNet: End-to-End Performance Evaluation of 5G Cellular Systems 2019 ,		9
92	D2D communications underlying cellular networks on licensed and unlicensed bands with QoS constraints. <i>Journal of Communications and Networks</i> , 2019 , 21, 416-428	4.1	7
91	QBT: Queue-Size Based Busy Tones for Protecting Multihop Low-Power Networks 2019 ,		2
90	CRUI: Collision Reduction and Utilization Improvement in OFDMA-Based 802.11ax Networks 2019 ,		5
89	Low-Power Wireless With Denseness: The Case of an Electronic Shelf Labeling System Design and Experience. <i>IEEE Access</i> , 2019 , 7, 163887-163897	3.5	4
88	BeaconRider: Opportunistic Sharing of Beacon Air-Time in Densely Deployed WLANs 2019 ,		2
87	Resource Sharing in Dual-Stack Devices: Opportunistic Bluetooth Transmissions in WLAN Busy Periods. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 2396-2407	4.6	2

86	ORGMA: Reliable opportunistic routing with gradient forwarding for MANETs. <i>Computer Networks</i> , 2018 , 131, 52-64	5.4	11
85	Sensing-Based Power Adaptation for Cellular V2X Mode 4 2018 ,		13
84	Analysis of Dual Connectivity Gain in Terms of Delay and Throughput 2018 ,		2
83	MAPLE: Mobility support using asymmetric transmit power in low-power and lossy networks. <i>Journal of Communications and Networks</i> , 2018 , 20, 414-424	4.1	9
82	Mitigating stealthy jamming attacks in low-power and lossy wireless networks. <i>Journal of Communications and Networks</i> , 2018 , 20, 219-230	4.1	13
81	Load Balancing Under Heavy Traffic in RPL Routing Protocol for Low Power and Lossy Networks. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 964-979	4.6	118
80	Smarter Markets for Smarter Life: Applications, Challenges, and Deployment Experiences 2017 , 55, 34-41		14
79	. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 2502-2525	37.1	148
78	An opportunistic scheduling algorithm using aged CSI in massive MIMO systems. <i>Computer Networks</i> , 2017 , 129, 284-296	5.4	4
77	Do Not Lose Bandwidth: Adaptive Transmission Power and Multihop Topology Control 2017 ,		7
76	CABLE: Connection Interval Adaptation for BLE in Dynamic Wireless Environments 2017 ,		5
75	DT-RPL: Diverse bidirectional traffic delivery through RPL routing protocol in low power and lossy networks. <i>Computer Networks</i> , 2017 , 126, 150-161	5.4	27
74	Dodge-Jam: Anti-Jamming Technique for Low-Power and Lossy Wireless Networks 2017 ,		11
73	ORPL-DT: Opportunistic Routing for Diverse Traffic in Multihop IoT Networks 2017 ,		3
72	Beacon flooding problem in high-density WLANs 2017 ,		1
71	A Synergistic Architecture for RPL over BLE 2016 ,		8
70	Reliable and Energy-Efficient Downward Packet Delivery in Asymmetric Transmission Power-Based Networks. <i>ACM Transactions on Sensor Networks</i> , 2016 , 12, 1-25	2.9	6
69	Receiver-Side TCP Countermeasure to Bufferbloat in Wireless Access Networks. <i>IEEE Transactions on Mobile Computing</i> , 2016 , 15, 2080-2093	4.6	14

68	Q-BT: Queue-Based Burst Transmission Over an Asynchronous Duty-Cycle MAC Protocol. <i>IEEE Communications Letters</i> , 2016 , 20, 812-815	3.8	6
67	A Channel Allocation Algorithm for Reducing the Channel Sensing/Reserving Asymmetry in 802.11ac Networks. <i>IEEE Transactions on Mobile Computing</i> , 2015 , 14, 458-472	4.6	17
66	Joint Subcarrier Assignment and Power Allocation in Full-Duplex OFDMA Networks. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3108-3119	9.6	80
65	Transmission power control for large scale industrial applications in low power and lossy networks 2015 ,		4
64	QU-RPL: Queue utilization based RPL for load balancing in large scale industrial applications 2015 ,		46
63	A measurement study of TCP over RPL in low-power and lossy networks. <i>Journal of Communications and Networks</i> , 2015 , 17, 647-655	4.1	30
62	MarketNet 2015 ,		16
61	Mitigation of sounding pilot contamination in massive MIMO systems 2014 ,		21
60	Elimination of multi-hop transmission from downlink in low power and lossy networks 2014 ,		2
59	Distributed network configuration in large-scale low power wireless networks. <i>Computer Networks</i> , 2014 , 70, 288-301	5.4	11
58	Sounding resource management for QoS support in massive MIMO systems. <i>Computer Networks</i> , 2014 , 70, 142-153	5.4	4
57	Opportunistic Mode Selection and RB Assignment for D2D Underlay Operation in LTE Networks 2014 ,		4
56	InFRA: In-frame rate adaptation in fast fading channel environments 2014 ,		1
55	Performance Analysis of Periodic Busy Tones Protecting a ZigBee Network from Wi-Fi Interruption 2014 ,		3
54	Uplink Channel Sounding in TDD-OFDM Cellular Systems. <i>Wireless Personal Communications</i> , 2013 , 73, 563-585	1.9	2
53	Before/after precoding massive MIMO systems for cloud radio access networks. <i>Journal of Communications and Networks</i> , 2013 , 15, 398-406	4.1	13
52	2013 ,		2
51	Alleviation of contention collision in IEEE 802.15.4 networks 2013 ,		3

50	On the MDP-Based Cost Minimization for Video-on-Demand Services in a Heterogeneous Wireless Network with Multihomed Terminals. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 1737-1749	4.6	24
49	Channel Sounding with Partial Channel Information in the Uplink of OFDM-Based Wireless Systems. <i>Wireless Personal Communications</i> , 2012 , 63, 895-916	1.9	
48	Mitigation of Co-Channel Interference in Bluetooth Piconets. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 1249-1254	9.6	12
47	User Throughput Estimation for the PF Scheduling Algorithm under MIMO Channel Environments. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 528-531	5.9	7
46	Coordinated User Scheduling Based on Hybrid CSI in Multi-User MIMO Relay System with Limited Feedback. <i>Wireless Personal Communications</i> , 2012 , 67, 937-950	1.9	
45	Scalable network joining mechanism in wireless sensor networks 2012 ,		10
44	Distributed Scalable Network Association in Wireless Sensor Networks 2012 ,		2
43	Deployment algorithm for femtocells in multi-tiered wireless cellular network 2012 ,		3
42	Dynamic Inter-Cell Interference Avoidance in Self-Organizing Femtocell Networks 2011 ,		4
41	Complexity reduced space ML detection for other-cell interference mitigation in SIMO cellular systems. <i>European Transactions on Telecommunications</i> , 2011 , 22, 51-60		4
40	Performance improvement of IEEE 802.15.4 in the presence of co-channel interference 2011 ,		2
39	Channel Sounding for Multi-Sector Cooperative Beamforming in TDD-OFDM Wireless Systems 2010 ,		1
38	Duty cycle optimization for a multi hop transmission method in wireless sensor networks. <i>IEEE Communications Letters</i> , 2010 , 14, 269-271	3.8	6
37	FRFC: Fast Table Building Algorithm for Recursive Flow Classification. <i>IEEE Communications Letters</i> , 2010 , 14, 1182-1184	3.8	5
36	Extended proportional fair scheduling for statistical QoS guarantee in wireless networks. <i>Journal of Communications and Networks</i> , 2010 , 12, 346-357	4.1	3
35	Exploiting Multiuser MIMO in the IEEE 802.11 Wireless LAN Systems. <i>Wireless Personal Communications</i> , 2010 , 54, 385-396	1.9	9
34	HE-MAC: Hop Extended MAC Protocol for Wireless Sensor Networks 2009 ,		10
33	Energy efficient routing protocol for wireless sensor networks with ultra low duty cycle 2009 ,		2

32	Adaptive Energy Saving Scheme for Downlink Elastic Traffic in Wireless Networks 2009 ,		1
31	Enhancing Security Using the Discarded Security Information in Mobile WiMAX Networks 2008 ,		6
30	Tier Based Anycast to Achieve Maximum Lifetime by Duty Cycle Control in Wireless Sensor Networks 2008 ,		6
29	Adaptive Contention Window Mechanism for Enhancing Throughput in HomePlug AV Networks 2008 ,		10
28	MeCA: Distributed Certification Authority in Wireless Mesh Networks 2008 ,		3
27	W-MAC: Supporting Ultra Low Duty Cycle in Wireless Sensor Networks 2008 ,		7
26	MAC Protocol Using Asynchronous Multi-Channels in Ad Hoc Networks 2007 ,		4
25	MrCA: Multi-round Collision Avoidance for Contention-Based Medium Access Control 2007 ,		4
24	Cell-Throughput Analysis of the Proportional Fair Scheduler in the Single-Cell Environment. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 766-778	6.8	182
23	Relative Entropy-Based Filtering of Internet Worms by Inspecting TCP SYN Retry Packets 2007 ,		2
22	Scheduler Design for Multiple Traffic Classes in OFDMA Networks 2006 ,		14
21	FDF: Frequency Detection-Based Filtering of Scanning Worms 2006 ,		1
20	WLC25-3: Resource Management Policies for Fixed Relays in Cellular Networks. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		14
19	Selective channel feedback mechanisms for wireless multichannel scheduling 2006 ,		3
18	Maximizing Differentiated Throughput in IEEE 802.11e Wireless LANs. <i>Local Computer Networks (LCN), Proceedings of the IEEE Conference on</i> , 2006 ,		10
17	A hybrid active queue management for stability and fast adaptation. <i>Journal of Communications and Networks</i> , 2006 , 8, 93-105	4.1	2
16	Multichannel random access in OFDMA wireless networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 603-613	14.2	116
15	Delay-Sensitive Packet Scheduling for a Wireless Access Link. <i>IEEE Transactions on Mobile Computing</i> , 2006 , 5, 1374-1383	4.6	6

14	Flexible Design of Frequency Reuse Factor in OFDMA Cellular Networks 2006 ,		22
13	Preventing session table explosion in packet inspection computers. <i>IEEE Transactions on Computers</i> , 2005 , 54, 238-240	2.5	11
12	An OFDMA-based next-generation wireless downlink system design with hybrid multiple access and frequency grouping techniques. <i>Journal of Communications and Networks</i> , 2005 , 7, 115-125	4.1	4
11	Scheduling for VoIP service in cdma2000 1x EV-DO 2004 ,		3
10	Optimal antenna assignment considering QoS under MIMO environments 2004 ,		1
9	Performance impact of coarse timer granularities on QoS guarantees in Unix-Based systems. <i>IEEE Transactions on Computers</i> , 2003 , 52, 51-58	2.5	
8	Buffered fixed routing: a routing protocol for real-time transport in grid networks. <i>Journal of Lightwave Technology</i> , 2000 , 18, 757-764	4	0
7	Dynamic multi-path routing and how it compares with other dynamic routing algorithms for high speed wide area network 1992 ,		28
6	QoS scheduling for multimedia traffic in packet data cellular networks		4
5	Profit-based routing for centralized multi-hop wireless networks		1
4	Weighted fair bandwidth allocation and active queue management for adaptive flows		1
3	Resource allocation for heterogeneous services in multiuser OFDM systems		7
2	Flexible and fast IP lookup algorithm		1
1	Multiclass call admission control in QoS-sensitive CDMA networks		2