

# Seong-Lyun Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

1,808  
citations

566801

15  
h-index

301761

39  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Stage Deep Anomaly Detection With Heterogeneous Time Series Data. IEEE Access, 2022, 10, 13704-13714.	2.6	1
2	Hiding in the Crowd: Federated Data Augmentation for On-Device Learning. IEEE Intelligent Systems, 2021, 36, 80-87.	4.0	6
3	Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications. Proceedings of the IEEE, 2021, 109, 796-819.	16.4	100
4	Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. IEEE Internet of Things Journal, 2021, 8, 11776-11792.	5.5	3
5	Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. IEEE Internet of Things Journal, 2021, 8, 14589-14606.	5.5	17
6	Blockchained On-Device Federated Learning. IEEE Communications Letters, 2020, 24, 1279-1283.	2.5	449
7	SINR Distribution and Scheduling Gain Analysis of Uplink Channel-Adaptive Scheduling. IEEE Transactions on Wireless Communications, 2020, 19, 2321-2335.	6.1	0
8	CSNOMA: Carrier Sense Non-Orthogonal Multiple Access. Sensors, 2020, 20, 5024.	2.1	2
9	Mix2FLD: Downlink Federated Learning After Uplink Federated Distillation With Two-Way Mixup. IEEE Communications Letters, 2020, 24, 2211-2215.	2.5	27
10	A Public Safety Framework for Immersive Aerial Monitoring through 5G Commercial Network. , 2020, , .		7
11	The Sampling Period Estimation based Adaptive Sampling Algorithm for a Self-sustainable Disaster Monitoring System. , 2020, , .		1
12	Opportunism in Spectrum Sharing for Beyond 5G With Sub-6 GHz: A Concept and Its Application to Duplexing. IEEE Access, 2020, 8, 148877-148891.	2.6	16
13	Mean-Field Game Theoretic Edge Caching in Ultra-Dense Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 935-947.	3.9	15
14	Random Access With Opportunity Detection in Wireless Networks. IEEE Wireless Communications Letters, 2019, 8, 1440-1443.	3.2	1
15	A Reinforcement Learning Approach to Dynamic Spectrum Access in Internet-of-Things Networks. , 2019, , .		5
16	Introduction to the Special Section From IEEE DySPAN 2018. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 608-610.	4.9	0
17	Sense-and-Predict: Harnessing Spatial Interference Correlation for Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2019, 18, 2777-2793.	6.1	14
18	Smartphone-based Indoor Localization Using Wi-Fi Fine Timing Measurement. , 2019, , .		24

#	ARTICLE	IF	CITATIONS
19	Millimeter-Wave Interference Avoidance via Building-Aware Associations. IEEE Access, 2018, 6, 10618-10634.	2.6	9
20	Delay Performance of Two-Stage Access in Cellular Internet-of-Things Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 3521-3533.	3.9	7
21	Exploiting Caching for Millimeter-Wave TCP Networks: Gain Analysis and Practical Design. IEEE Access, 2018, 6, 69769-69781.	2.6	9
22	Asymptotic Analysis of Normalized SNR-Based Scheduling in Uplink Cellular Networks with Truncated Channel Inversion Power Control. , 2018, , .		2
23	Poster: Location-based Directional CSMA/CA for Millimeter Wave V2V Communications. , 2018, , .		1
24	Millimeter-Wave Radio Access Network Sharing: A Market-Based Cooperative Bargaining Perspective. , 2018, , .		0
25	Guest Editorial Airborne Communication Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1903-1906.	9.7	6
26	Impact of Node Speed on Energy-Constrained Opportunistic Internet-of-Things with Wireless Power Transfer. Sensors, 2018, 18, 2398.	2.1	10
27	Massive UAV-to-Ground Communication and its Stable Movement Control: A Mean-Field Approach. , 2018, , .		32
28	Stochastic Geometry Analysis of Normalized SNR-Based Scheduling in Downlink Cellular Networks. IEEE Wireless Communications Letters, 2017, 6, 438-441.	3.2	6
29	Sense-and-predict: Opportunistic MAC based on spatial interference correlation for cognitive radio networks. , 2017, , .		9
30	Live Prefetching for Mobile Computation Offloading. IEEE Transactions on Wireless Communications, 2017, 16, 3057-3071.	6.1	57
31	Cognitive Random Access for Internet-of-Things Networks. , 2017, , .		5
32	Ultra-dense edge caching under spatio-temporal demand and network dynamics. , 2017, , .		22
33	Poster: Millimeter wave V2V communications with inaccurate location information. , 2017, , .		4
34	Testbed verification of spectrum access opportunity detection in cognitive radio networks. , 2017, , .		2
35	User-Centric Mobility Management in Ultra-Dense Cellular Networks under Spatio-Temporal Dynamics. , 2016, , .		40
36	Spatio-Temporal Network Dynamics Framework for Energy-Efficient Ultra-Dense Cellular Networks. , 2016, , .		13

#	ARTICLE	IF	CITATIONS
37	User attraction via wireless charging in downlink cellular networks. , 2016, , .		2
38	Tractable Resource Management With Uplink Decoupled Millimeter-Wave Overlay in Ultra-Dense Cellular Networks. IEEE Transactions on Wireless Communications, 2016, 15, 4362-4379.	6.1	92
39	Delay-Constrained Capacity of the IEEE 802.11 DCF in Wireless Multihop Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1105-1115.	3.9	6
40	Traffic convexity aware cellular networks: a vehicular heavy user perspective. IEEE Wireless Communications, 2016, 23, 88-94.	6.6	8
41	Optimization of Spectrum Allocation and Subsidization in Mobile Communication Services. IEEE Transactions on Vehicular Technology, 2016, 65, 8432-8443.	3.9	13
42	On the throughput gain of device-to-device communications. ICT Express, 2015, 1, 67-70.	3.3	14
43	Network Utility Maximization With Asymmetric User Satisfaction. IEEE Communications Letters, 2015, 19, 1205-1208.	2.5	2
44	Exploiting Regional Differences: A Spatially Adaptive Random Access. IEEE Transactions on Wireless Communications, 2015, 14, 4342-4352.	6.1	4
45	Asymptotic behavior of ultra-dense cellular networks and its economic impact. , 2014, , .		34
46	Spreading Information in Mobile Wireless Networks. , 2014, , .		0
47	Content-specific broadcast cellular networks based on user demand prediction: A revenue perspective. , 2014, , .		3
48	Asymmetric-valued spectrum auction and competition in wireless broadband services. , 2014, , .		4
49	Game-Theoretic Understanding of Price Dynamics in Mobile Communication Services. IEEE Transactions on Wireless Communications, 2014, 13, 5120-5131.	6.1	24
50	Optimization of transport capacity in wireless multihop networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	3
51	Cooperation through secondary relaying in TDMA cellular networks. , 2013, , .		0
52	An Iterative Algorithm for Optimal Carrier Sensing Threshold in Random CSMA/CA Wireless Networks. IEEE Communications Letters, 2013, 17, 2076-2079.	2.5	13
53	The Capacity of Energy-Constrained Mobile Networks with Wireless Power Transfer. IEEE Communications Letters, 2013, 17, 529-532.	2.5	14
54	Worst-Case User Analysis in Poisson Voronoi Cells. IEEE Communications Letters, 2013, 17, 1580-1583.	2.5	24

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55	Utility-Optimal Partial Spectrum Leasing for Future Wireless Services. , 2013, , .		5
56	Characterizing energy and deployment efficiency relations in cellular systems. , 2012, , .		1
57	On the Frequency Allocation for Coordinated Multi-Point Joint Transmission. , 2012, , .		4
58	Node mobility and capacity in wireless controllable ad hoc networks. Computer Communications, 2012, 35, 1345-1354.	3.1	9
59	Machine and robotic networking [Guest Editorial]. IEEE Network, 2012, 26, 4-5.	4.9	0
60	Time-Efficient Multiple-Stage Spectrum Sensing for Cognitive Radio Systems. IEICE Transactions on Communications, 2012, E95-B, 341-344.	0.4	0
61	Maximum Likelihood Detection of Random Primary Networks for Cognitive Radio Systems. IEICE Transactions on Communications, 2012, E95.B, 3365-3369.	0.4	0
62	Cost-efficient deployment of a wireless sensor network under dynamic spectrum sharing. , 2011, , .		1
63	Cross-Layer Optimization and Network Coding in CSMA/CA-Based Wireless Multihop Networks. IEEE/ACM Transactions on Networking, 2011, 19, 1028-1042.	2.6	16
64	Optimal Detection of Spatial Opportunity in Wireless Networks. IEEE Communications Letters, 2011, 15, 395-397.	2.5	6
65	Optimization of Time-Domain Spectrum Sensing for Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 1937-1943.	3.9	13
66	Price War in Wireless Access Networks: A Regulation for Convergence. , 2011, , .		2
67	Optimal Opportunistic Rate Allocation in Cognitive Radio Ad Hoc Networks. , 2011, , .		0
68	An overlaid Hybrid-Duplex OFDMA system with partial frequency reuse. , 2011, , .		1
69	Mobility-Based Topology Control for Wireless Ad Hoc Networks. IEICE Transactions on Communications, 2010, E93-B, 1443-1450.	0.4	2
70	Hierarchically Modulated Network Coding for Asymmetric Two-Way Relay Systems. IEEE Transactions on Vehicular Technology, 2010, 59, 2179-2184.	3.9	54
71	Optimizing Time and Power Allocation for Four-Node Wireless Broadcasting Channel with Relay. , 2010, , .		0
72	Temporal Spectrum Sharing Based on Primary User Activity Prediction. IEEE Transactions on Wireless Communications, 2010, 9, 3848-3855.	6.1	62

#	ARTICLE	IF	CITATIONS
73	End-to-end delay in wireless random networks. IEEE Communications Letters, 2010, 14, 109-111.	2.5	11
74	Multi-robot path finding with wireless multihop communications. , 2010, 48, 126-132.		27
75	Wireless small-world networks with beamforming. , 2009, , .		3
76	Mobility-Assisted QoS Topology Control in Wireless Mobile Ad Hoc Networks. , 2009, , .		3
77	Wireless communications in networked robotics [Guest editorial. IEEE Wireless Communications, 2009, 16, 4-5.	6.6	16
78	Network Coded ALOHA for Wireless Multihop Networks. , 2009, , .		5
79	Node Mobility Control and Capacity in Wireless Ad Hoc Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 97-102.	0.4	2
80	An Improved Encoder for Joint Source-Channel Decoder Using Conditional Entropy Constraint. IEICE Transactions on Communications, 2009, E92-B, 2222-2225.	0.4	0
81	Downlink Resource Management in the Frequency Domain for Multicell OFCDM Wireless Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 3241-3246.	3.9	0
82	Multi-User Water-Filling in Uplink OFDMA Systems. , 2008, , .		0
83	Adaptive Inter-Cell Interference Management for Downlink FH-OFDMA Systems. International Conference on Advanced Communication Technology, 2008, , .	0.0	1
84	The capacity of random wireless networks. IEEE Transactions on Wireless Communications, 2008, 7, 4968-4975.	6.1	10
85	Overlaid HDD System Using Relays. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
86	Block Waterfilling with Power Borrowing for Multicarrier Communications. , 2008, , .		5
87	Cooperative path-finding of multi-robots with wireless multihop communications. , 2008, , .		3
88	Minimum distortion network code design for source coding over noisy channels. , 2008, , .		8
89	On the Optimal Downlink Power Allocation for Multi-carrier OFCDM Wireless Networks. , 2006, , .		2
90	Joint data rate and power allocation for lifetime maximization in interference limited ad hoc networks. IEEE Transactions on Wireless Communications, 2006, 5, 1086-1094.	6.1	22

#	ARTICLE	IF	CITATIONS
91	A cross-layer optimization of IEEE 802.11 MAC for wireless multihop networks. IEEE Communications Letters, 2006, 10, 531-533.	2.5	7
92	A cross-layer optimization of IEEE 802.11 MAC for wireless multihop networks. IEEE Communications Letters, 2006, 10, 531-533.	2.5	0
93	Joint subcarrier and power allocation in uplink OFDMA systems. IEEE Communications Letters, 2005, 9, 526-528.	2.5	281
94	Random power control in wireless ad hoc networks. IEEE Communications Letters, 2005, 9, 1046-1048.	2.5	27
95	A new loss recovery architecture for wireless TCP. IEEE Communications Letters, 2005, 9, 1018-1020.	2.5	4
96	Infrastructure support increases the capacity of ad hoc wireless networks. , 0, , .		0
97	Comparison of Opportunistic Scheduling Policies in Time-Slotted AMC Wireless Networks. , 0, , .		13