Haejoon Jung

List of Publications by Year
in descending order

69 papers	940 citations	567281 15 h-index	526287 27 g-index
69 all docs	69 docs citations	69 times ranked	641 citing authors

#	Article	IF	Citations
1	The shift to 6G communications: vision and requirements. Human-centric Computing and Information Sciences, 2020, 10, .	6.1	130
2	On cooperative transmission range extension in multi-hop wireless ad-hoc and sensor networks: A review. Ad Hoc Networks, 2015, 29, 117-134.	5.5	73
3	On Underwater Wireless Sensor Networks Routing Protocols: A Review. IEEE Sensors Journal, 2020, 20, 10371-10386.	4.7	68
4	Future Is Unlicensed: Private 5G Unlicensed Network for Connecting Industries of Future. Sensors, 2020, 20, 2774.	3.8	45
5	Experimental range extension of concurrent cooperative transmission in indoor environments at 2.4GHz. , 2010, , .		40
6	6G R&D vision: Requirements and candidate technologies. Journal of Communications and Networks, 2022, 24, 232-245.	2.6	34
7	Outage Analysis of Millimeter-Wave Wireless Backhaul in the Presence of Blockage. IEEE Communications Letters, 2016, 20, 2268-2271.	4.1	28
8	STBC-Aided Cooperative NOMA With Timing Offsets, Imperfect Successive Interference Cancellation, and Imperfect Channel State Information. IEEE Transactions on Vehicular Technology, 2020, 69, 11712-11727.	6.3	28
9	Secrecy Performance Analysis of Analog Cooperative Beamforming in Three-Dimensional Gaussian Distributed Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1860-1873.	9.2	27
10	BER Analysis of a Backscatter Communication System With Non-Orthogonal Multiple Access. IEEE Transactions on Green Communications and Networking, 2021, 5, 574-586.	5.5	24
11	Backhaul-Aware Intelligent Positioning of UAVs and Association of Terrestrial Base Stations for Fronthaul Connectivity. IEEE Transactions on Network Science and Engineering, 2021, 8, 2742-2755.	6.4	24
12	A Drone-Aided Blockchain-Based Smart Vehicular Network. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4160-4170.	8.0	22
13	6G NR-U Based Wireless Infrastructure UAV: Standardization, Opportunities, Challenges and Future Scopes. IEEE Access, 2022, 10, 30536-30555.	4.2	21
14	Analog Cooperative Beamforming With Spherically-Bound Random Arrays for Physical-Layer Secure Communications. IEEE Communications Letters, 2018, 22, 546-549.	4.1	20
15	Energy Efficiency and Hover Time Optimization in UAV-Based HetNets. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5103-5111.	8.0	20
16	Multi-Packet Opportunistic Large Array Transmission on Strip-Shaped Cooperative Routes or Networks. IEEE Transactions on Wireless Communications, 2014, 13, 144-158.	9.2	18
17	Secure Transmission Using Linearly Distributed Virtual Antenna Array With Element Position Perturbations. IEEE Transactions on Vehicular Technology, 2021, 70, 474-489.	6.3	15
18	Connectivity Analysis of Millimeter-Wave Device-to-Device Networks with Blockage. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	1.2	14

#	Article	IF	Citations
19	Secrecy Rate of Analog Collaborative Beamforming With Virtual Antenna Array Following Spatial Random Distributions. IEEE Wireless Communications Letters, 2018, 7, 626-629.	5.0	14
20	User Selection and Power Allocation for Downlink NOMA Systems With Quality-Based Feedback in Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2020, 9, 1924-1927.	5.0	14
21	Distributed Null-Steering Beamformer Design for Physical Layer Security Enhancement in Internet-of-Things Networks. IEEE Systems Journal, 2021, 15, 277-288.	4.6	14
22	Performance Analysis of UAV-Enabled Over-the-Air Computation Under Imperfect Channel Estimation. IEEE Wireless Communications Letters, 2022, 11, 438-442.	5.0	14
23	Multi-Packet Interference in Opportunistic Large Array Broadcasts over Disk Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5631-5645.	9.2	11
24	Wireless Power and Bidirectional Data Transfer System for IoT and Mobile Devices. IEEE Transactions on Industrial Electronics, 2022, 69, 11832-11836.	7.9	11
25	Optimization of Magnetic Field Focusing and Null Steering for Selective Wireless Power Transfer. IEEE Transactions on Power Electronics, 2020, 35, 4622-4633.	7.9	10
26	Deep Learning-Based Power Control Scheme With Partial Channel Information in Overlay Device-to-Device Communication Systems. IEEE Access, 2021, 9, 122125-122137.	4.2	10
27	Demonstration of a new degree of freedom in wireless routing. , 2010, , .		10
28	Outage Analysis of Multihop Wireless Backhaul Using Millimeter Wave under Blockage Effects. International Journal of Antennas and Propagation, 2017, 2017, 1-9.	1.2	9
29	Performance Analysis of Three-Dimensional Clustered Device-to-Device Networks for Internet of Things. Wireless Communications and Mobile Computing, 2017, 2017, 1-10.	1.2	9
30	Performance Analysis of Millimeter-Wave Multi-hop Machine-to-Machine Networks Based on Hop Distance Statistics. Sensors, 2018, 18, 204.	3.8	9
31	Energy efficient placement of UAVs in wireless backhaul networks. , 2020, , .		9
32	Dynamic Pricing for Intelligent Transportation System in the 6G Unlicensed Band. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9853-9868.	8.0	9
33	Capacity and Fairness of Quality-Based Channel State Feedback Scheme for Wireless Multicast Systems in Non-Identical Fading Channels. IEEE Wireless Communications Letters, 2017, 6, 446-449.	5.0	8
34	QoS-Based Performance Analysis of mmWave UAV-Assisted 5G Hybrid Heterogeneous Network. , 2019, , .		8
35	Exact Secrecy Rate Analysis of Antenna Subset Modulation Schemes. IEEE Systems Journal, 2021, 15, 4827-4830.	4.6	8
36	Performance Analysis of Millimeter-Wave UAV Swarm Networks under Blockage Effects. Sensors, 2020, 20, 4593.	3.8	8

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37	Secrecy Rate Analysis of Open-Loop Analog Collaborative Beamforming Under Position Estimation Error of Virtual Antenna Array. IEEE Wireless Communications Letters, 2019, 8, 1337-1340.	5.0	7
38	Optimal Subset Size Analysis of Randomized Analog Beamforming Using Uniform Planar Arrays in mmWave Networks. IEEE Wireless Communications Letters, 2021, 10, 1414-1418.	5.0	7
39	Contextual Bandits Approach for Selecting the Best Channel in Industry 4.0 Network. , 2021, , .		7
40	Analysis of time-weighted LoRa-based positioning using machine learning. Computer Communications, 2022, 193, 266-278.	5.1	7
41	Analysis of spatial pipelining in Opportunistic Large Array broadcasts. , 2011, , .		6
42	Coverage Probability and Area Spectral Efficiency of Clustered Linear Unmanned Vehicle Sensor Networks. Sensors, 2017, 17, 2550.	3.8	6
43	On the Symbol Error Probability of STBC-NOMA with Timing Offsets and Imperfect Successive Interference Cancellation. Electronics (Switzerland), 2021, 10, 1386.	3.1	6
44	Intelligent radio resource management in reconfigurable IRS-enabled NOMA networks. Physical Communication, 2022, 53, 101744.	2.1	6
45	SNR penalty from the path-loss disparity in virtual multiple-input-single-output (VMISO) link. , 2013, , .		5
46	Q2A-NOMA: A Q-Learning-Based QoS-Aware NOMA System Design for Diverse Data Rate Requirements. IEEE Transactions on Industrial Informatics, 2022, 18, 7549-7559.	11.3	5
47	Analysis of intra-flow interference in Opportunistic Large Array transmission for strip networks. , 2012, , .		3
48	Characterization of Path-Loss Disparity in Virtual Multiple-Input-Single-Output Links. International Journal of Antennas and Propagation, 2014, 2014, 1-12.	1.2	3
49	Network time synchronization for large multi-hop sensor networks using the cooperative analog-and-digital (CANDI) protocol. , 2014, , .		3
50	A Physical-Layer Scheduling Approach in Large-Scale Cooperative Networks. IEEE Access, 2019, 7, 134338-134347.	4.2	3
51	Energy Efficiency of a Decode-and-Forward Multiple-Relay Network with Rate Adaptive LDPC Codes. Sensors, 2019, 19, 4793.	3.8	3
52	True Detect: Deep Learning-Based Device-Free Activity Recognition Using WiFi. , 2020, , .		3
53	Analysis of link asymmetry in virtual multiple-input-single-output (VMISO) systems. Ad Hoc Networks, 2017, 63, 20-29.	5.5	3
54	Link Asymmetry in Virtual MISO-based Networks. , 2013, , .		2

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55	Comments on "A Stochastic Mathematical Framework for the Analysis of Spherically-Bound Random Arrays". IEEE Transactions on Antennas and Propagation, 2018, 66, 5666-5667.	5.1	2
56	Auxiliary beam pair enabled initial access for mmWave D2D networks. Physical Communication, 2020, 39, 101039.	2.1	2
57	Unlocking Unlicensed Band Potential to Enable URLLC in Cloud Robotics for Ubiquitous IoT. IEEE Network, 2021, 35, 107-113.	6.9	2
58	Wireless Infrastructure Drone based on NR-U: A Perspective. , 2021, , .		2
59	On Minimizing the Age of Information in NOMA-Based Vehicular Networks Using Markov Decision Process. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15557-15567.	8.0	2
60	Secrecy Rate Analysis of Randomized Radiation for Intelligent Reflecting Surface-Aided Communication Systems. IEEE Communications Letters, 2022, 26, 1999-2003.	4.1	2
61	Outage Analysis of Distributed Antenna Systems in a Composite Fading Channel with Correlated Shadowing. Journal of Sensor and Actuator Networks, 2018, 7, 32.	3.9	1
62	Energy-Efficient Path Selection Using SNR Correlation for Wireless Multi-Hop Cooperative Communications. Energies, 2018, 11, 3004.	3.1	1
63	Comments on "Fixed Region Beamforming Using Frequency Diverse Subarray for Secure mmWave Wireless Communications". IEEE Transactions on Information Forensics and Security, 2021, 16, 2821-2822.	6.9	1
64	Channel Estimation for Spatial Modulation Schemes in Spatially Correlated Time Varying Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 5143-5148.	6.3	1
65	On the Performance of Alamouti-Coded Cooperative NOMA with Imperfect Channel State Information. , 2021, , .		1
66	Opportunistic Large Array Propagation Models: A Comprehensive Survey. Sensors, 2021, 21, 4206.	3.8	1
67	Enhancing Secrecy with Random Frequency Variation in mmWave Communication Systems. IEEE Communications Letters, 2021, , 1-1.	4.1	1
68	Advanced Wireless Technology for Ultrahigh Data Rate Communication. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	0
69	Low-Complexity Physical Layer Security Technique Using Uniform Linear Arrays. , 2021, , .		0