

Heejung Yu

List of Publications by Year in descending order

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papers

1,686
citations

394421

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37
g-index

101
all docs

101
docs citations

101
times ranked

1445
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Resource Management in IoT Operating Systems. IEEE Access, 2018, 6, 8459-8482.	4.2	152
2	5G Ultra-Reliable Low-Latency Communication Implementation Challenges and Operational Issues with IoT Devices. Electronics (Switzerland), 2019, 8, 981.	3.1	129
3	What is 5G? Emerging 5G Mobile Services and Network Requirements. Sustainability, 2017, 9, 1848.	3.2	124
4	A survey on routing protocols supported by the Contiki Internet of things operating system. Future Generation Computer Systems, 2018, 82, 200-219.	7.5	92
5	Least Squares Approach to Joint Beam Design for Interference Alignment in Multiuser Multi-Input Multi-Output Interference Channels. IEEE Transactions on Signal Processing, 2010, 58, 4960-4966.	5.3	86
6	Impact of Feature Selection Algorithm on Speech Emotion Recognition Using Deep Convolutional Neural Network. Sensors, 2020, 20, 6008.	3.8	64
7	Adaptive MIMO decision feedback equalization for receivers with time-varying channels. IEEE Transactions on Signal Processing, 2005, 53, 4295-4303.	5.3	47
8	RIS-Aided Physical Layer Security With Full-Duplex Jamming in Underlay D2D Networks. IEEE Access, 2021, 9, 99667-99679.	4.2	40
9	Beam Tracking for Interference Alignment in Slowly Fading MIMO Interference Channels: A Perturbations Approach Under a Linear Framework. IEEE Transactions on Signal Processing, 2012, 60, 1910-1926.	5.3	31
10	Wireless Secure Communication With Beamforming and Jamming in Time-Varying Wiretap Channels. IEEE Transactions on Information Forensics and Security, 2018, 13, 2087-2100.	6.9	31
11	Cognitive Radio Networks for Internet of Things and Wireless Sensor Networks. Sensors, 2020, 20, 5288.	3.8	31
12	Channel Estimation Techniques for RIS-Assisted Communication: Millimeter-Wave and Sub-THz Systems. IEEE Vehicular Technology Magazine, 2022, 17, 64-73.	3.4	27
13	Optimal Tethered-UAV Deployment in A2G Communication Networks: Multi-Agent Q -Learning Approach. IEEE Internet of Things Journal, 2022, 9, 18539-18549.	8.7	23
14	How Much Information Can One Get From a Wireless Ad Hoc Sensor Network Over a Correlated Random Field?. IEEE Transactions on Information Theory, 2009, 55, 2827-2847.	2.4	22
15	Design and prototype development of MIMO-OFDM for next generation wireless LAN. IEEE Transactions on Consumer Electronics, 2005, 51, 1134-1142.	3.6	21
16	Security at the Physical Layer Over GG Fading and mEGG Turbulence Induced RF-UOWC Mixed System. IEEE Access, 2021, 9, 18123-18136.	4.2	21
17	Enabling technologies for AI empowered 6G massive radio access networks. ICT Express, 2023, 9, 341-355.	4.8	21
18	Opportunistic channel selection MAC protocol for cognitive radio ad hoc sensor networks in the internet of things. Sustainable Computing: Informatics and Systems, 2018, 18, 112-120.	2.2	20

#	ARTICLE	IF	CITATIONS
19	Multiagent Q -Learning-Based Multi-UAV Wireless Networks for Maximizing Energy Efficiency: Deployment and Power Control Strategy Design. IEEE Internet of Things Journal, 2022, 9, 6434-6442.	8.7	19
20	Impact of Correlation and Pointing Error on Secure Outage Performance Over Arbitrary Correlated Nakagami- m and M -Turbulent Fading Mixed RF-FSO Channel. IEEE Photonics Journal, 2021, 13, 1-17.	2.0	19
21	A least squares approach to joint beam design for interference alignment in multiuser interference channels. , 2009, , .		18
22	Optimal sensing performance for cooperative and non-cooperative cognitive radio networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771774499.	2.2	18
23	Spatial-Temporal Sensing and Utilization in Full Duplex Spectrum-Heterogeneous Cognitive Radio Networks for the Internet of Things. Sensors, 2019, 19, 1441.	3.8	18
24	Physical layer security based on NOMA and AJ for MISOSE channels with an untrusted relay. Future Generation Computer Systems, 2020, 102, 611-618.	7.5	18
25	WiFi HaLow for Long-Range and Low-Power Internet of Things: System on Chip Development and Performance Evaluation. IEEE Communications Magazine, 2021, 59, 101-107.	6.1	18
26	An Efficient Algorithm for Zero-Forcing Coordinated Beamforming. IEEE Communications Letters, 2012, 16, 994-997.	4.1	17
27	Secrecy Performance Analysis of Mixed Hyper-Gamma and Gamma-Gamma Cooperative Relaying System. IEEE Access, 2020, 8, 131273-131285.	4.2	17
28	Design of Dual-Band MIMO-OFDM System for Next Generation Wireless LAN. , 0, , .		16
29	Multiple Access Control for Cognitive Radio-Based IEEE 802.11ah Networks. Sensors, 2018, 18, 2043.	3.8	16
30	Application Mapping Using Cuckoo Search Optimization With Levy Flight for NoC-Based System. IEEE Access, 2021, 9, 141778-141789.	4.2	16
31	Rate-Energy Tradeoff Analysis in RIS-SWIPT Systems With Hardware Impairments and Phase-Based Amplitude Response. IEEE Access, 2022, 10, 31821-31835.	4.2	16
32	Training and Data Structures for AN-Aided Secure Communication. IEEE Systems Journal, 2019, 13, 2869-2872.	4.6	15
33	Bandwidth Design for Energy-Efficient Unmanned Aerial Vehicle Using Space-Time Line Code. IEEE Systems Journal, 2021, 15, 3154-3157.	4.6	15
34	Advanced Physical-Layer Technologies for Beyond 5G Wireless Communication Networks. Sensors, 2021, 21, 3197.	3.8	15
35	Design of the Power and Dimension of Artificial Noise for Secure Communication Systems. IEEE Transactions on Communications, 2021, 69, 4001-4010.	7.8	15
36	Security Improvement With QoS Provisioning Using Service Priority and Power Allocation for NOMA-IoT Networks. IEEE Access, 2021, 9, 9937-9948.	4.2	15

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37	Limited Feedback for Multicell Zero-Forcing Coordinated Beamforming in Time-Varying Channels. IEEE Transactions on Vehicular Technology, 2015, 64, 2349-2360.	6.3	14
38	Sum Utilization of Spectrum with Spectrum Handoff and Imperfect Sensing in Interweave Multi-Channel Cognitive Radio Networks. Sustainability, 2018, 10, 1764.	3.2	14
39	Residual Energy Analysis in Cognitive Radios with Energy Harvesting UAV under Reliability and Secrecy Constraints. Sensors, 2020, 20, 2998.	3.8	14
40	Beam Tracking for Interference Alignment in Time-Varying MIMO Interference Channels: A Conjugate-Gradient-Based Approach. IEEE Transactions on Vehicular Technology, 2014, 63, 958-964.	6.3	13
41	Optimal primary pilot power allocation and secondary channel sensing in cognitive radios. IET Communications, 2016, 10, 487-494.	2.2	13
42	Frame Structure Design for Vehicular-to-Roadside Unit Communications Using Space-Time Line Code Under Time-Varying Channels. IEEE Systems Journal, 2021, 15, 3150-3153.	4.6	12
43	Energy-Efficient HARQ-IR for Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 3892-3901.	7.8	11
44	Training Signal Design for Sparse Channel Estimation in Intelligent Reflecting Surface-Assisted Millimeter-Wave Communication. IEEE Transactions on Wireless Communications, 2022, 21, 2399-2413.	9.2	11
45	Joint Design of Improved Spectrum and Energy Efficiency With Backscatter NOMA for IoT. IEEE Access, 2022, 10, 7504-7519.	4.2	11
46	Optimal channel sensing maximising sum rate in cognitive radio with multiple secondary links. Transactions on Emerging Telecommunications Technologies, 2013, 24, 777-784.	3.9	10
47	TrustWalker: An Efficient Trust Assessment in Vehicular Internet of Things (VIoT) with Security Consideration. Sensors, 2020, 20, 3945.	3.8	10
48	Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. IEEE Internet of Things Journal, 2021, 8, 17211-17226.	8.7	10
49	An Optimized Nature-Inspired Metaheuristic Algorithm for Application Mapping in 2D-NoC. Sensors, 2021, 21, 5102.	3.8	9
50	Superposition data transmission for cognitive radios: Performance and algorithms. , 2008, , .		8
51	Enhanced Sensing and Sum-Rate Analysis in a Cognitive Radio-Based Internet of Things. Sensors, 2020, 20, 2525.	3.8	8
52	Design of Channel Estimation for Hybrid Beamforming Millimeter-Wave Systems in the Presence of Beam Squint. IEEE Systems Journal, 2022, 16, 2834-2843.	4.6	8
53	Transmit antenna selection for MIMO systems with V-BLAST type detection. , 0, , .		7
54	Beamforming Transmission in IEEE 802.11ac under Time-Varying Channels. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	7

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55	Fault-Tolerant Network-On-Chip Router Architecture Design for Heterogeneous Computing Systems in the Context of Internet of Things. <i>Sensors</i> , 2020, 20, 5355.	3.8	7
56	A Cluster-Based Cooperative Spectrum Sensing in Cognitive Radio Network Using Eigenvalue Detection Technique with Superposition Approach. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 207935.	2.2	7
57	Opportunistic Relay in Multicast Channels With Generalized Shadowed Fading Effects: A Physical Layer Security Perspective. <i>IEEE Access</i> , 2021, 9, 155726-155739.	4.2	7
58	An efficient and cost effective application mapping for network-on-chip using Andean condor algorithm. <i>Journal of Network and Computer Applications</i> , 2022, 200, 103319.	9.1	7
59	Cognitive Interference Cancellation with Digital Channelizer for Satellite Communication. <i>Sensors</i> , 2020, 20, 355.	3.8	6
60	Self-Interference Cancellation for Shared Band Transmission in Nonlinear Satellite Communication Channels. <i>ETRI Journal</i> , 2017, 39, 771-781.	2.0	5
61	Sensing and Utilization of Spectrum with Cooperation Interference for Full-Duplex Cognitive Radio Networks. , 2019, , .		5
62	Device-to-Device Aided Cooperative Relaying Scheme Exploiting Spatial Modulation: An Interference Free Strategy. <i>Sensors</i> , 2020, 20, 7048.	3.8	5
63	Aircraft Classification Based on PCA and Feature Fusion Techniques in Convolutional Neural Network. <i>IEEE Access</i> , 2021, 9, 161683-161694.	4.2	5
64	Optimal node density for two-dimensional sensor arrays. , 2008, , .		4
65	Wireless Backhaul Based on IEEE 802.11ac With Smart Beamforming. <i>IEEE Systems Journal</i> , 2019, 13, 2354-2362.	4.6	4
66	Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. <i>IEEE Systems Journal</i> , 2020, 14, 4990-5001.	4.6	4
67	Optimal Pilot and Data Power Allocation for Joint Communication-Radar Air-to-Ground Networks. <i>IEEE Access</i> , 2022, 10, 52336-52342.	4.2	4
68	Equalization scheme for OFDM systems in long delay spread channels. , 0, , .		3
69	Large deviations analysis for the detection of 2D hidden Gauss-Markov random fields using sensor networks. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008, , .	1.8	3
70	Information, energy and density for Ad Hoc sensor networks over correlated random fields: Large deviations analysis. , 2008, , .		3
71	Iterative algorithm for interference alignment in multiuser mimo interference channels. , 2010, , .		3
72	Adaptive beam tracking for interference alignment in time-varying MIMO interference channels: Conjugate gradient approach. , 2011, , .		3

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73	Beamforming for Downlink Multiuser MIMO Time-Varying Channels Based on Generalized Eigenvector Perturbation. ETRI Journal, 2012, 34, 869-878.	2.0	3
74	A Review on Interference Alignment in Multiuser Interference Channels. Wireless Personal Communications, 2015, 83, 1751-1764.	2.7	3
75	Performance analysis of centralised and distributed scheduling schemes for mobile multihop relay systems. IET Communications, 2017, 11, 69-75.	2.2	3
76	Optimization of Frame Structure and Fronthaul Compression for Uplink C-RAN Under Time-Varying Channels. IEEE Transactions on Wireless Communications, 2021, 20, 1278-1292.	9.2	3
77	Channel estimation and equalization for high speed mobile OFDM systems. , 0, , .		2
78	Adaptive MIMO decision feedback equalization for receivers in time-varying channels. , 0, , .		2
79	On optimal operating characteristics of sensing and training for cognitive radios. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	2
80	Channel Estimation Scheme for WLAN Systems with Backward Compatibility. ETRI Journal, 2012, 34, 450-453.	2.0	2
81	Energy-efficient resource allocation in multi-user AF two-way relay channels. Journal of Communications and Networks, 2016, 18, 629-638.	2.6	2
82	Improvement of spectrum utilization with retransmission in cognitive radio networks: Analytical approach. , 2017, , .		2
83	Optimization of uplink rate and fronthaul compression in cloud radio access networks. Future Generation Computer Systems, 2020, 102, 465-471.	7.5	2
84	An Analytical Approach to Opportunistic Transmission under Rayleigh Fading Channels. International Journal of Distributed Sensor Networks, 2015, 11, 725198.	2.2	2
85	IoT THEORETICAL TO PRACTICAL: CONTIKI-OS AND ZOLERTIA REMOTE. Far East Journal of Electronics and Communications, 2017, 17, 915-921.	0.2	2
86	On the Impact of Transceiver Impairments and Reflecting Elements for RIS-Aided Communications. , 2021, , .		2
87	Reduced Search Space Scheme for Detection of Spatial Division Multiplexing. , 0, , .		1
88	Multi-user MIMO downlink beamforming based on perturbation theory of generalized eigenvector. , 2012, , .		1
89	A Nonlinear Transceiver Architecture for Overloaded Multiuser MIMO Interference Channels. IEEE Transactions on Communications, 2012, 60, 946-951.	7.8	1
90	Regularized Zero-Forcing Beam Design under Time-varying Channels. ETRI Journal, 2016, 38, 435.	2.0	1

#	ARTICLE	IF	CITATIONS
91	Smart beamforming based wireless backhaul for cost-effective small cells. , 2016, , .		1
92	Training Signal Design for Sparse Channel Estimation in Millimeter-Wave Communication with Intelligent Reflecting Surfaces. , 2021, , .		1
93	High-Resolution and Low-Complexity Direction of Arrival Estimation for Hybrid Array of Subarrays. IEEE Access, 2022, 10, 54922-54935.	4.2	1
94	Efficient pattern-based emulation for IEEE 802.11a baseband. , 2005, , .		0
95	Efficient Resource Allocation for Proportional Fair Schedulers in Multihop Relay Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1750-1752.	0.3	0
96	Energy- and Spectral-Efficiency Trade-Off in OFDMA Downlink Channels. Wireless Personal Communications, 2017, 96, 6355-6367.	2.7	0
97	A New Cellular Network Structure Deploying Shared Relays with Sectorization. Wireless Personal Communications, 2017, 94, 2987-2999.	2.7	0
98	Resource planning and backhaul-link optimisation for relay networks. IET Communications, 2018, 12, 2076-2086.	2.2	0
99	Low-Complexity Nonlinearity Post Compensator for Shared Band Transmission in Satellite Communication. , 2018, , .		0