Sung Won Kim

List of Publications by Year
in descending order

143 papers	3,629 citations	172457 29 h-index	149698 56 g-index
147 all docs	147 docs citations	147 times ranked	3311 citing authors

#	ARTICLE	IF	CITATIONS
1	Extended Kalman Filter-Based Power Line Interference Canceller for Electrocardiogram Signal. Big Data, 2022, 10, 34-53.	3.4	4
2	Blockchain-based green big data visualization: BGbV. Complex & Intelligent Systems, 2022, 8, 3707-3718.	6.5	6
3	REAS-TMIS: Resource-Efficient Authentication Scheme for Telecare Medical Information System. IEEE Access, 2022, 10, 23008-23021.	4.2	23
4	Learning-Based Resource Management for Low-Power and Lossy IoT Networks. IEEE Internet of Things Journal, 2022, 9, 16006-16016.	8.7	2
5	An Efficient Algorithm for Mapping Deep Learning Applications on the NoC Architecture. Applied Sciences (Switzerland), 2022, 12, 3163.	2.5	4
6	A Survey on Cyber Security Threats in IoT-Enabled Maritime Industry. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-14.	8.0	23
7	Artificial Intelligence in Beyond 5G and 6G Reliable Communications. IEEE Internet of Things Magazine, 2022, 5, 73-78.	2.6	11
8	Internet of Drones: Routing Algorithms, Techniques and Challenges. Mathematics, 2022, 10, 1488.	2.2	14
9	System-Level Performance Analysis of Cooperative Multiple Unmanned Aerial Vehicles for Wildfire Surveillance Using Agent-Based Modeling. Sustainability, 2022, 14, 5927.	3.2	3
10	An Optimized Hyperparameter of Convolutional Neural Network Algorithm for Bug Severity Prediction in Alzheimer's-Based IoT System. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	2
11	An energy efficient and low overhead fault mitigation technique for internet of thing edge devices reliable on-chip communication. Software - Practice and Experience, 2021, 51, 2393-2410.	3.6	9
12	RIATA: A Reinforcement Learning-Based Intelligent Routing Update Scheme for Future Generation IoT Networks. IEEE Access, 2021, 9, 81161-81172.	4.2	5
13	Machine learning-enabled Internet of Things for medical informatics. , 2021, , 111-126.		2
14	Next-Generation Internet of Things (IoT): Opportunities, Challenges, and Solutions. Sensors, 2021, 21, 1174.	3.8	69
15	Machine Learning and LPWAN Based Internet of Things Applications in Healthcare Sector during COVID-19 Pandemic. Electronics (Switzerland), 2021, 10, 1615.	3.1	1
16	Reinforcement learning-enabled Intelligent Device-to-Device (I-D2D) communication in Narrowband Internet of Things (NB-IoT). Computer Communications, 2021, 176, 13-22.	5.1	17
17	Towards Data-Driven Control of QoS in IoT: Unleashing the Potential of Diversified Datasets. IEEE Access, 2021, 9, 146068-146081.	4.2	2
18	Reliability Optimization in Narrowband Device-to-Device Communication for 5G and Beyond-5G Networks. IEEE Access, 2021, 9, 157584-157596.	4.2	12

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19	Deep Reinforcement Learning Paradigm for Dense Wireless Networks in Smart Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 43-70.	1.1	6
20	Performance optimization of QoS-supported dense WLANs using machine-learning-enabled enhanced distributed channel access (MEDCA) mechanism. Neural Computing and Applications, 2020, 32, 13107-13115.	5.6	12
21	Multimedia Internet of Things: A Comprehensive Survey. IEEE Access, 2020, 8, 8202-8250.	4.2	194
22	The limitations in the state-of-the-art counter-measures against the security threats in H-IoT. Cluster Computing, 2020, 23, 2047-2065.	5.0	21
23	(ReLBT): A Reinforcement learning-enabled listen before talk mechanism for LTE-LAA and Wi-Fi coexistence in IoT. Computer Communications, 2020, 150, 498-505.	5.1	27
24	A Dynamic DL-Driven Architecture to Combat Sophisticated Android Malware. IEEE Access, 2020, 8, 129600-129612.	4.2	23
25	A Network Adaptive Fault-Tolerant Routing Algorithm for Demanding Latency and Throughput Applications of Network-on-a-Chip Designs. Electronics (Switzerland), 2020, 9, 1076.	3.1	10
26	Hybrid Deep Learning: An Efficient Reconnaissance and Surveillance Detection Mechanism in SDN. IEEE Access, 2020, 8, 134695-134706.	4.2	47
27	Reinforcement Learning-Enabled Cross-Layer Optimization for Low-Power and Lossy Networks under Heterogeneous Traffic Patterns. Sensors, 2020, 20, 4158.	3.8	16
28	Intelligent learning automata-based objective function in RPL for IoT. Sustainable Cities and Society, 2020, 59, 102234.	10.4	33
29	Antenna Selection and Designing for THz Applications: Suitability and Performance Evaluation: A Survey. IEEE Access, 2020, 8, 113246-113261.	4.2	69
30	NoCGuard: A Reliable Network-on-Chip Router Architecture. Electronics (Switzerland), 2020, 9, 342.	3.1	11
31	The Future of Healthcare Internet of Things: A Survey of Emerging Technologies. IEEE Communications Surveys and Tutorials, 2020, 22, 1121-1167.	39.4	475
32	Routing protocol for Low-Power and Lossy Networks for heterogeneous traffic network. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	59
33	Smart Contract Privacy Protection Using AI in Cyber-Physical Systems: Tools, Techniques and Challenges. IEEE Access, 2020, 8, 24746-24772.	4.2	155
34	Performance Evaluation of Application Mapping Approaches for Network-on-Chip Designs. IEEE Access, 2020, 8, 63607-63631.	4.2	38
35	Internet of Multimedia Things (IoMT): Opportunities, Challenges and Solutions. Sensors, 2020, 20, 2334.	3.8	47
36	Trends, Issues, and Challenges in the Domain of IoT-Based Vehicular Cloud Network. Unmanned System Technologies, 2020, , 49-64.	1.0	6

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37	A Blockchain Model for Trustworthiness in the Internet of Things (IoT)-Based Smart-Cities. EAI/Springer Innovations in Communication and Computing, 2020, , 1-19.	1.1	6
38	An Intelligent Deterministic D2D Communication in Narrow-band Internet of Things. , 2019, , .		14
39	SAHCI: Scheduling Approach for Heterogeneous Content-Centric IoT Applications. IEEE Access, 2019, 7, 80342-80349.	4.2	12
40	Q-learning-enabled channel access in next-generation dense wireless networks for IoT-based eHealth systems. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	23
41	Q-Learning Based Fair and Efficient Coexistence of LTE in Unlicensed Band. Sensors, 2019, 19, 2875.	3.8	21
42	Proposition and Real-Time Implementation of an Energy-Aware Routing Protocol for a Software Defined Wireless Sensor Network. Sensors, 2019, 19, 2739.	3.8	25
43	DCS: Distributed Caching Strategy at the Edge of Vehicular Sensor Networks in Information-Centric Networking. Sensors, 2019, 19, 4407.	3.8	18
44	Emerging Technologies for Future Sensor Networksâ€"Selected Papers from ICGHIT 2019. Sensors, 2019, 19, 3854.	3.8	0
45	A Churn Prediction Model Using Random Forest: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector. IEEE Access, 2019, 7, 60134-60149.	4.2	169
46	Cognitive backoff mechanism for IEEE802.11ax high-efficiency WLANs. Journal of Communications and Networks, 2019, 21, 158-167.	2.6	23
47	Internet of Things (IoT) Operating Systems Management: Opportunities, Challenges, and Solution. Sensors, 2019, 19, 1793.	3.8	82
48	Performance Evaluation of LoRaWAN for Green Internet of Things. IEEE Access, 2019, 7, 164102-164112.	4.2	25
49	Deep Reinforcement Learning Paradigm for Performance Optimization of Channel Observationâ€"Based MAC Protocols in Dense WLANs. IEEE Access, 2019, 7, 3500-3511.	4.2	62
50	A Survey on Resource Management in IoT Operating Systems. IEEE Access, 2018, 6, 8459-8482.	4.2	152
51	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
52	Design of MAC Layer Resource Allocation Schemes for IEEE 802.11ax: Future Directions. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 28-52.	3.2	35
53	LTE in the Unlicensed Spectrum: A Survey. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	24
54	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

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55	Energy-Aware Adaptive Trickle Timer Algorithm for RPL-based Routing in the Internet of Things. , 2018, , .		16
56	SNR-based relay selection in cooperative wireless ad hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2018, 28, 45.	0.5	2
57	5G Mobile Services and Scenarios: Challenges and Solutions. Sustainability, 2018, 10, 3626.	3.2	65
58	LWA in 5G: State-of-the-Art Architecture, Opportunities, and Research Challenges. IEEE Communications Magazine, 2018, 56, 134-141.	6.1	41
59	Channel observationâ€based scaled backoff mechanism for highâ€efficiency WLANs. Electronics Letters, 2018, 54, 663-665.	1.0	21
60	A Self-Scrutinized Backoff Mechanism for IEEE 802.11ax in 5G Unlicensed Networks. Sustainability, 2018, 10, 1201.	3.2	31
61	An Admission Control Mechanism for 5G LWA. Sustainability, 2018, 10, 1999.	3.2	5
62	Adaptively scaled back-off (ASB) mechanism for enhanced performance of CSMA/CA in IEEE 802.11ax high efficiency WLAN. , 2018, , .		5
63	A reliable and scalable groupCast block acknowledgement scheme for video multicast over IEEE 802.11aa. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5853-5865.	1.4	0
64	Fair and Efficient Channel Observation-Based Listen-Before Talk (CoLBT) for LAA-WiFi Coexistence in Unlicensed LTE. , 2018, , .		11
65	A breakthrough in multi-hop wireless multimedia sensor networking protocols. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769888.	2.2	1
66	Congestion control routing using optimal channel assignment mechanism in wireless mesh network. , 2017, , .		2
67	A review of wireless access vehicular environment multichannel operational medium access control protocols: Quality-of-service analysis and other related issues. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771017.	2.2	13
68	LTE or LAA: Choosing Network Mode for My Mobile Phone in 5G Network. , 2017, , .		5
69	I-DTMC: An Integrated-Discrete Time Markov Chain Model for Performance Analysis in Future WLANs. , 2017, , .		2
70	IEEE Access Special Section Editorial: The New Era of Smart Cities: Sensors, Communication Technologies, and Applications. IEEE Access, 2017, 5, 27836-27840.	4.2	11
71	Adaptive Window Size-Based Medium Access Control Protocol for Cognitive Radio Wireless Sensor Networks. Journal of Sensors, 2016, 2016, 1-9.	1.1	4
72	A Survey on Node Clustering in Cognitive Radio Wireless Sensor Networks. Sensors, 2016, 16, 1465.	3.8	38

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73	Applications of Cognitive Radio Networks: Recent Advances and Future Directions. International Journal of Distributed Sensor Networks, 2016, 12, 4964068.	2.2	6
74	TinyOS-New Trends, Comparative Views, and Supported Sensing Applications: A Review. IEEE Sensors Journal, 2016, 16, 2865-2889.	4.7	91
75	A new opportunistic routing forwarders selection scheme to enhance throughput for wireless networks. , 2015, , .		0
76	Opportunistic Hybrid Transport Protocol (OHTP) for Cognitive Radio Ad Hoc Sensor Networks. Sensors, 2015, 15, 31672-31686.	3.8	12
77	Heuristic Approach to Select Opportunistic Routing Forwarders (HASORF) to Enhance Throughput for Wireless Sensor Networks. Journal of Sensors, 2015, 2015, 1-10.	1.1	6
78	The new Petersen-torus networks. Journal of Supercomputing, 2015, 71, 894-908.	3.6	2
79	Quality of service analysis for multimedia traffic using DSR, AODV and TORA over Wi-Media ultra wide band. , 2015, , .		3
80	Efficient and Reliable MPEG-4 Multicast MAC Protocol for Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1026-1035.	6.3	6
81	A Robust Trust Establishment Scheme for Wireless Sensor Networks. Sensors, 2015, 15, 7040-7061.	3.8	33
82	Routing Layer Solution for Mitigating Frequent Channel Switching in Ad Hoc Cognitive Radio Networks. IEEE Communications Letters, 2015, 19, 1917-1920.	4.1	8
83	Trust management system in wireless sensor networks: design considerations and research challenges. Transactions on Emerging Telecommunications Technologies, 2015, 26, 107-130.	3.9	42
84	Fuzzy-logic-based channel selection in IEEE 802.22 WRAN. Information Systems, 2015, 48, 327-332.	3.6	14
85	An Analytical Approach to Opportunistic Transmission under Rayleigh Fading Channels. International Journal of Distributed Sensor Networks, 2015, 11, 725198.	2.2	2
86	A Cross-Layer-Based Routing Protocol for Ad Hoc Cognitive Radio Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-7.	2.2	5
87	A MAC Protocol for CR-WSN without a Dedicated Common Control Channel. International Journal of Distributed Sensor Networks, 2015, 11, 982408.	2.2	2
88	A Breakthrough in Multihop Wireless Multimedia Sensor Networking Protocols. International Journal of Distributed Sensor Networks, 2015, 11, 921040.	2.2	0
89	Reselling Spectrum Information to the Cognitive Users by Maintaining Spectrum Database. Advanced Science Letters, 2015, 21, 1681-1683.	0.2	0
90	A Secure Trust Establishment Scheme for Wireless Sensor Networks. Sensors, 2014, 14, 1877-1897.	3.8	28

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91	Throughput Enhancement in Cooperative Wireless Ad Hoc Networks. , 2014, , .		2
92	Modified GroupCast retries block acknowledgement scheme in IEEE 802.11aa standard-based for multimedia applications. , 2014, , .		2
93	Broadcasting Algorithms of Three-Dimensional Petersen-Torus Network. Journal of Applied Mathematics, 2014, 2014, 1-10.	0.9	1
94	Decentralized Predictive MAC Protocol for Ad Hoc Cognitive Radio Networks. Wireless Personal Communications, 2014, 74, 803-821.	2.7	20
95	Some properties and algorithms for the hyper-torus network. Journal of Supercomputing, 2014, 69, 121-138.	3.6	1
96	Smart Solutions in Elderly Care Facilities with RFID System and Its Integration with Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 713946.	2.2	13
97	Cognitive Radio Wireless Sensor Networks: Applications, Challenges and Research Trends. Sensors, 2013, 13, 11196-11228.	3.8	219
98	An analysis of channel access delay in synchronized MAC protocol for cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2012, 25, n/a-n/a.	3.9	4
99	One-to-many node-disjoint paths of hyper-star networks. Discrete Applied Mathematics, 2012, 160, 2006-2014.	0.9	15
100	MAC protocol for reliable multicast over multi-hop wireless ad hoc networks. Journal of Communications and Networks, 2012, 14, 63-74.	2.6	6
101	Topological properties of folded hyper-star networks. Journal of Supercomputing, 2012, 59, 1336-1347.	3.6	6
102	Efficient Retransmission Methods in Wireless MAC Protocol for Multicast. Wireless Personal Communications, 2012, 63, 613-626.	2.7	0
103	A secure trust establishment in wireless sensor networks. , 2011, , .		5
104	An Enhanced Synchronized MAC Protocol for Cognitive Radio Networks. , 2011, , .		3
105	Rate-Adaptive MAC Protocol for Wireless Multicast Over OFDMA-Based MANETs. Wireless Personal Communications, 2011, 56, 675-692.	2.7	6
106	Energy consumption balancing (ECB) issues and mechanisms in wireless sensor networks (WSNs): a comprehensive overview. European Transactions on Telecommunications, 2011, 22, 151-167.	1.2	97
107	Retransmission Decision Method for Wireless Multicast in Ad-Hoc Networks. IEICE Transactions on Communications, 2011, E94-B, 580-582.	0.7	2
108	Feedback-assisted MAC protocol for real time traffic in high rate wireless personal area networks. Wireless Networks, 2010, 16, 1109-1121.	3.0	8

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109	Network allocation vector (NAV)-based opportunistic prescanning process for WLANs. Electronics Letters, 2010, 46, 1630.	1.0	7
110	Efficient MAC Protocol for Subcarrier-Wise Rate Adaptation over WLAN. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	0
111	Low complexity intra prediction algorithm for MPEG-2 to H.264/AVC transcoder. IEEE Transactions on Consumer Electronics, 2010, 56, 987-994.	3.6	20
112	Energy consumption balancing in Wireless Sensor Networks. , 2010, , .		0
113	Energy consumption balancing in Wireless Sensor Networks. , 2010, , .		1
114	An Efficient Variable Channel Allocation Technique for Wireless Local Area Network (WLAN) IEEE802.11 Standard. , 2009, , .		5
115	A Reader Anti-collision MAC Protocol for Dense Reader RFID System. , 2009, , .		12
116	Distributed Clustering Algorithm with Load Balancing in&#x0A0;&#x0A0;Wireless Sensor Network. , 2009, , .		12
117	A Distributed Geo-Routing Algorithm for Wireless Sensor Networks. Sensors, 2009, 9, 4083-4103.	3.8	10
118	Enhanced detection with new ordering schemes for V-BLAST systems. IEEE Transactions on Communications, 2009, 57, 1648-1651.	7.8	10
119	Comments on â€œA Class of Fault-Tolerant Multiprocessor Networksâ€. IEEE Transactions on Reliability, 2009, 58, 496-500.	4.6	6
120	Dynamic rate adaptation for wireless multicast. , 2009, , .		3
121	An Efficient MAC Protocol for Throughput Enhancement in Dense RFID System. , 2009, , .		2
122	An Efficient MAC Protocol for Improving the Network Throughput for Cognitive Radio Networks. , 2009, , .		18
123	OFDMA-Based Reliable Multicast MAC Protocol for Wireless Ad-Hoc Networks. ETRI Journal, 2009, 31, 83-85.	2.0	8
124	One-to-All Broadcasting of Even Networks for One-Port and All-Port Models. ETRI Journal, 2009, 31, 330-332.	2.0	2
125	Link-Adaptive MAC Protocol for Wireless Multicast. IEICE Transactions on Communications, 2009, E92-B, 3939-3941.	0.7	0
126	OFDMA-Based Reliable Multicasting MAC Protocol for WLANs. IEEE Transactions on Vehicular Technology, 2008, 57, 3136-3145.	6.3	29

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127	Performance analysis of forward error correcting codes in IPTV. IEEE Transactions on Consumer Electronics, 2008, 54, 376-380.	3.6	12
128	Overhead reduction in rate-adaptive MAC over OFDM-based wireless networks. Electronics Letters, 2008, 44, 1312.	1.0	0
129	Survey, Nomenclature and Comparison of Reader Anti-Collision Protocols in RFID. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2008, 25, 285.	3.2	45
130	Next Generation Delay and Performance Measuring Algorithm for an Overall Network. , 2008, , .		1
131	Fault Diameter of Even Networks. , 2008, , .		1
132	Reliable Wireless Multicasting with Minimum Overheads in OFDM-Based WLANs. , 2008, , .		6
133	Opportunistic Scheduling with Statistical Fairness Guarantee in Wireless Networks. , 2007, , .		0
134	Reliable Multicast MAC Protocol for Wireless Ad Hoc Networks. Lecture Notes in Computer Science, 2007, , 276-284.	1.3	2
135	Adaptive cross-layer packet scheduling method for multimedia services in wireless personal area networks. Journal of Communications and Networks, 2006, 8, 297-305.	2.6	1
136	Multi-user Diversity for IEEE 802.11 Infrastructure Wireless LAN. Lecture Notes in Computer Science, 2006, , 214-223.	1.3	1
137	Opportunistic Packet Scheduling over IEEE 802.11 WLAN. Lecture Notes in Computer Science, 2006, , 399-408.	1.3	0
138	Downlink and Uplink Resource Allocation in IEEE 802.11 Wireless LANs. IEEE Transactions on Vehicular Technology, 2005, 54, 320-327.	6.3	117
139	Two-step multipolling MAC protocol for wireless LANs. IEEE Journal on Selected Areas in Communications, 2005, 23, 1276-1286.	14.0	47
140	Power-Efficient Packet Scheduling Method for IEEE 802.15.3 WPAN. Lecture Notes in Computer Science, 2005, , 462-472.	1.3	0
141	Resource Allocation Based on Traffic Load over Relayed Wireless Access Networks. Lecture Notes in Computer Science, 2005, , 441-451.	1.3	1
142	MAC protocol for resource allocation in hotspot microcell. Electronics Letters, 2004, 40, 1426.	1.0	0
143	Link-adaptable polling-based MAC protocol for wireless LANs. , 0, , .		0