Hwangnam Kim

List of Publications by Year
in descending order

112 papers	1,206 citations	471061 17 h-index	500791 28 g-index
113 all docs	113 docs citations	113 times ranked	1094 citing authors

#	Article	IF	Citations
1	Future of IoT Networks: A Survey. Applied Sciences (Switzerland), 2017, 7, 1072.	1.3	141
2	Survey on Anti-Drone Systems: Components, Designs, and Challenges. IEEE Access, 2021, 9, 42635-42659.	2.6	105
3	Improving protocol capacity with model-based frame scheduling in IEEE 802.11-operated WLANs. , 2003, , .		75
4	Drone Detection and Identification System using Artificial Intelligence. , 2018, , .		53
5	Toward electricity retail competition: Survey and case study on technical infrastructure for advanced electricity market system. Applied Energy, 2014, 133, 252-273.	5.1	50
6	A Cross-Layer Approach for Per-Station Fairness in TCP over WLANs. IEEE Transactions on Mobile Computing, 2008, 7, 898-911.	3.9	41
7	Preserving privacy and efficiency in data communication and aggregation for AMI network. Journal of Network and Computer Applications, 2016, 59, 333-344.	5.8	36
8	MR-CloudSim: Designing and implementing MapReduce computing model on CloudSim. , 2012, , .		34
9	Indoor Pedestrian Localization Using iBeacon and Improved Kalman Filter. Sensors, 2018, 18, 1722.	2.1	28
10	Implementing home energy management system with UPnP and mobile applications. Computer Communications, 2012, 36, 51-62.	3.1	25
11	Formation Control Algorithm of Multi-UAV-Based Network Infrastructure. Applied Sciences (Switzerland), 2018, 8, 1740.	1.3	25
12	Dimensionality reduction based on ICA for regression problems. Neurocomputing, 2008, 71, 2596-2603.	3.5	24
13	AVSS: Airborne Video Surveillance System. Sensors, 2018, 18, 1939.	2.1	23
14	UAV Flight and Landing Guidance System for Emergency Situations â€. Sensors, 2019, 19, 4468.	2.1	22
15	Noncooperative carrier sense game in wireless networks. IEEE Transactions on Wireless Communications, 2009, 8, 5280-5289.	6.1	21
16	Handover Management of Net-Drones for Future Internet Platforms. International Journal of Distributed Sensor Networks, 2016, 12, 5760245.	1.3	20
17	DAG-Based Distributed Ledger for Low-Latency Smart Grid Network. Energies, 2019, 12, 3570.	1.6	19
18	Constructing a reliable and fast recoverable network for drones. , 2016, , .		18

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19	Wi-Fi Seeker: A link and Load Aware AP Selection Algorithm. IEEE Transactions on Mobile Computing, 2017, 16, 2366-2378.	3.9	18
20	Devising Mobile Sensing and Actuation Infrastructure with Drones. Sensors, 2018, 18, 624.	2.1	18
21	Configuring RTK-GPS Architecture for System Redundancy in Multi-Drone Operations. IEEE Access, 2020, 8, 76228-76242.	2.6	18
22	A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids. IEEE Transactions on Smart Grid, 2011, 2, 759-769.	6.2	16
23	SELECT: Self-Learning Collision Avoidance for Wireless Networks. IEEE Transactions on Mobile Computing, 2008, 7, 305-321.	3.9	15
24	Optimal coverage control for net-drone handover. , 2015, , .		15
25	CoSimulating Communication Networks and Electrical System for Performance Evaluation in Smart Grid. Applied Sciences (Switzerland), 2018, 8, 85.	1.3	15
26	Estimating Link Reliability in Wireless Networks: An Empirical Study and Interference Modeling. , 2010, , .		14
27	Ground Control System Based Routing for Reliable and Efficient Multi-Drone Control System. Applied Sciences (Switzerland), 2018, 8, 2027.	1.3	14
28	Energy-Efficient Topology Control for UAV Networks. Energies, 2019, 12, 4523.	1.6	13
29	Authentication and Delegation for Operating a Multi-Drone System. Sensors, 2019, 19, 2066.	2.1	12
30	A fast simulation framework for IEEE 802.11-operated wireless LANs. , 2004, , .		11
31	Geo-fencing: Geographical-fencing based energy-aware proactive framework for mobile devices. , 2012, , .		11
32	DQ: Two approaches to measure the degree of decentralization of blockchain. ICT Express, 2021, 7, 278-282.	3.3	11
33	Drone formation algorithm on 3D space for a drone-based network infrastructure. , 2016, , .		10
34	AFAR: A robust and delay-constrained communication framework for smart grid applications. Computer Networks, 2015, 91, 1-25.	3.2	9
35	An MPTCP-Based Transmission Scheme for Improving the Control Stability of Unmanned Aerial Vehicles. Sensors, 2021, 21, 2791.	2.1	9
36	A Distributed Approach of Proportional Bandwidth Allocation for Real-Time Services in UltraWideBand (UWB) WPANs. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1626-1643.	4.0	8

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37	Multi-sector multi-range control for self-organizing wireless networks. Journal of Network and Computer Applications, 2011, 34, 1848-1860.	5.8	8
38	An Empirical Interference Modeling for Link Reliability Assessment in Wireless Networks. IEEE/ACM Transactions on Networking, 2013, 21, 272-285.	2.6	8
39	Empowering Dronesâ€™ Teamwork with Airborne Network. , 2017, , .		8
40	An empirical framework for user mobility models: Refining and modeling user registration patterns. Journal of Computer and System Sciences, 2011, 77, 869-883.	0.9	7
41	Analyzing Location Accuracy of Unmanned Vehicle According to RTCM Message Frequency of RTK-GPS. , 2019, , .		7
42	Devising a Distributed Co-Simulator for a Multi-UAV Network. Sensors, 2020, 20, 6196.	2.1	7
43	Drone Positioning System Using UWB Sensing and Out-of-Band Control. IEEE Sensors Journal, 2022, 22, 5329-5343.	2.4	7
44	Enabling location-aware quality-controlled access in wireless networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	6
45	CEPP: Perceiving the Emotional State of the User Based on Body Posture. Applied Sciences (Switzerland), 2017, 7, 978.	1.3	6
46	DAGmap: Multi-Drone SLAM via a DAG-Based Distributed Ledger. Drones, 2022, 6, 34.	2.7	6
47	Integrating network-calculus-based simulation with packet-level simulation for TCP-operated networks. Computer Networks, 2006, 50, 1995-2012.	3.2	5
48	Mixed-mode simulation for IEEE 802.11-operated WLANs. Computer Networks, 2007, 51, 1379-1402.	3.2	5
49	FASE: Fast authentication system for e-health. , 2013, , .		5
50	Devising geographic diffusion for drone networks. , 2016, , .		5
51	Channel Quality Estimation for Improving Awareness of Communication Situation in the 2.4 GHz ISM Band. IEEE Transactions on Mobile Computing, 2018, 17, 2002-2013.	3.9	5
52	Adaptive Decision of Wireless Access Network for Higher User Satisfaction. Wireless Communications and Mobile Computing, 2018, 2018, 1-19.	0.8	5
53	Cooperative Computing System for Heavy-Computation and Low-Latency Processing in Wireless Sensor Networks. Sensors, 2018, 18, 1686.	2.1	5
54	Angular MST-Based Topology Control for Multi-hop Wireless Ad Hoc Networks. ETRI Journal, 2008, 30, 341-343.	1.2	4

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55	Exploiting User Movement Direction and Hidden Access Point for Smartphone Localization. Wireless Personal Communications, 2014, 78, 1863-1878.	1.8	4
56	Improving quality of multimedia services through network performance isolation in a mobile device. Multimedia Tools and Applications, 2017, 76, 5317-5346.	2.6	4
57	Autonomous mission completion system for disconnected delivery drones in urban area. , 2017, , .		4
58	Pedestrian Positioning Using a Double-Stacked Particle Filter in Indoor Wireless Networks. Sensors, 2019, 19, 3907.	2.1	4
59	Patterned Cipher Block for Low-Latency Secure Communication. IEEE Access, 2020, 8, 44632-44642.	2.6	4
60	Precise Localization of a UAV with Single Vision Camera and Deep Learning. , 2020, , .		4
61	Short-term nonuniform access in IEEE 802.11-compliant WLANs. , 2006, , .		3
62	Enabling network calculus-based simulation for TCP congestion control. Computer Networks, 2009, 53, 1-24.	3.2	3
63	PReSENt: A Collaboration Framework for Resource Sharing in Wireless Mesh Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 289-302.	4.0	3
64	A simulation study on Map/Reduce framework in wireless data center environment. , 2013, , .		3
65	CoSA: Adaptive link-aware real-time streaming for mobile devices. , 2013, , .		3
66	Simultaneous Attack on Drone and GCS in UAV Systems. , 2018, , .		3
67	Simplified KF-based energy-efficient vehicle positioning for smartphones. Journal of Communications and Networks, 2020, 22, 93-107.	1.8	3
68	A fast simulation framework for IEEE 802.11-operated wireless LANs. Performance Evaluation Review, 2004, 32, 143-154.	0.4	3
69	Bidirectional bandwidth allocation for TCP performance enhancement in mobile WiMAX networks. , 2008, , .		2
70	QoE-driven Wi-Fi selection mechanism for next generation smartphones. , 2012, , .		2
71	Bayesian navigation system with particle filtering and dead reckoning in urban canyon environments. , 2012, , .		2
72	ReMA: Real-time 3D video streaming system for mobile devices. , 2014, , .		2

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73	Channel quality estimation using Bluetooth for other standards in the 2.4 GHz ISM band. , 2016, , .		2
74	On the Necessity of VM Migration: Simulation on Datacenter Network Resources. Wireless Personal Communications, 2016, 86, 1797-1812.	1.8	2
75	Designing interferenceâ€aware network selection protocol for WLAN mobile devices. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2890.	2.6	2
76	Mobile deviceâ€centric access point monitoring scheme for handover decision triggering in heterogeneous networks. International Journal of Communication Systems, 2017, 30, e3376.	1.6	2
77	Improving Reliability of Real-Time Remote Vehicle Control through Duplicating Control Packets. , 2018, , .		2
78	RC Function Virtualization - You Can Remote Control Drone Squadrons (poster). , 2019, , .		2
79	Adaptive TCP Transmission Adjustment for UAV Network Infrastructure. Applied Sciences (Switzerland), 2020, 10, 1161.	1.3	2
80	TCP-aware bidirectional bandwidth allocation in IEEE 802.16 networks. Wireless Networks, 2010, 16, 2123-2138.	2.0	1
81	Sequential Monte Carlo Filtering for Location Estimation in Indoor Wireless Environments. , 2010, , .		1
82	Improving Location Estimation with Two-Tier Particle Filtering in Mobile Wireless Environment. , 2011, , .		1
83	Fast performance assessment of IEEE 802.11-based wireless networks. Mathematical and Computer Modelling, 2011, 53, 2173-2191.	2.0	1
84	Preserving privacy with anonymity for customer collaboration in smart grid. , 2012, , .		1
85	Analyzing extent and influence of mobile device's participation in Mobile Cloud Computing. , 2013, , .		1
86	Automated methodology for gastric endoscopy in an e-health environment. , 2013, , .		1
87	EMVideo: User collaboration framework for generating multimedia contents in social networks. , 2014, , .		1
88	Heterogeneous cloud storage system for privacy. , 2014, , .		1
89	MACoD: Mobile Device-Centric Approach for Identifying Access Point Congestion. , 2015, , .		1
90	Enhancing base station connectivity with directional information of movement. ICT Express, 2016, 2, 122-125.	3.3	1

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91	Research on potential of sound-based direction sensing for drones. , 2016, , .		1
92	Securing mobile access with interactive image code and image key encryption. Security and Communication Networks, 2016, 9, 3412-3427.	1.0	1
93	Devising a user collaboration scheme to automatically generate videos. Multimedia Tools and Applications, 2016, 75, 4615-4638.	2.6	1
94	Acoustic Localization without Synchronization. , 2017, , .		1
95	DROCS: Distributed multi-robot on-demand control system. , 2017, , .		1
96	Protecting Download Traffic from Upload Traffic over Asymmetric Wireless Links. Wireless Communications and Mobile Computing, 2018, 2018, 1-15.	0.8	1
97	Guest Editorial Special Issue on Time-Sensitive Networks for Unmanned Aircraft Systems. Sensors, 2021, 21, 6132.	2.1	1
98	VMCS: Elaborating APF-Based Swarm Intelligence for Mission-Oriented Multi-UV Control. IEEE Access, 2020, 8, 223101-223113.	2.6	1
99	Ensuring Reliable OpenFlow Channel for SDN Based Cyber-Physical System. , 2021, , .		1
100	Enhancing gas detection-based swarming through deep reinforcement learning. Journal of Supercomputing, 0, , 1.	2.4	1
101	Refining Elusive User Registration Patterns for Empirical Mobility Models. , 2009, , .		0
102	Proactive searching period determination on singular radio mobile devices. , 2011, , .		0
103	Populating Virtual Access Points for Localization in Sparse Wireless Networks. , 2012, , .		0
104	Microscale Analysis on Sensing Devices and Its Impact on Assessing User Mobility. , 2013, , .		0
105	Exploiting user movement direction and hidden access point for smartphone localization. , 2013, , .		0
106	Self-configuring topology switch in smart home network. , 2013, , .		0
107	D-mago: A novel visual entity for storing emotional feeling with visual imprint. , 2014, , .		0
108	Network Performance Isolation Scheme for QoE in a mobile device. , 2015, , .		0

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109	Cross-layer modeling and analysis on delayed ACK in IEEE 802.11. , 2015, , .		0
110	WiLD: Widening view angle for lesion detection with gastroscopic images. , 2016, , .		0
111	Adaptive Transmission Scheme for TCP in Wireless Multi-Hop Network. , 2016, , .		0
112	Integrated approach of streaming 3d multimedia contents in real-time for mobile devices. Multimedia Tools and Applications, 2018, 77, 1811-1842.	2.6	0