Hwangnam Kim

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Drone Positioning System Using UWB Sensing and Out-of-Band Control. IEEE Sensors Journal, 2022, 22, 5329-5343.	2.4	7
2	DAGmap: Multi-Drone SLAM via a DAG-Based Distributed Ledger. Drones, 2022, 6, 34.	2.7	6
3	Survey on Anti-Drone Systems: Components, Designs, and Challenges. IEEE Access, 2021, 9, 42635-42659.	2.6	105
4	An MPTCP-Based Transmission Scheme for Improving the Control Stability of Unmanned Aerial Vehicles. Sensors, 2021, 21, 2791.	2.1	9
5	Guest Editorial Special Issue on Time-Sensitive Networks for Unmanned Aircraft Systems. Sensors, 2021, 21, 6132.	2.1	1
6	DQ: Two approaches to measure the degree of decentralization of blockchain. ICT Express, 2021, 7, 278-282.	3.3	11
7	Ensuring Reliable OpenFlow Channel for SDN Based Cyber-Physical System. , 2021, , .		1
8	Devising a Distributed Co-Simulator for a Multi-UAV Network. Sensors, 2020, 20, 6196.	2.1	7
9	Simplified KF-based energy-efficient vehicle positioning for smartphones. Journal of Communications and Networks, 2020, 22, 93-107.	1.8	3
10	Configuring RTK-GPS Architecture for System Redundancy in Multi-Drone Operations. IEEE Access, 2020, 8, 76228-76242.	2.6	18
11	Patterned Cipher Block for Low-Latency Secure Communication. IEEE Access, 2020, 8, 44632-44642.	2.6	4
12	Adaptive TCP Transmission Adjustment for UAV Network Infrastructure. Applied Sciences (Switzerland), 2020, 10, 1161.	1.3	2
13	Precise Localization of a UAV with Single Vision Camera and Deep Learning. , 2020, , .		4
14	VMCS: Elaborating APF-Based Swarm Intelligence for Mission-Oriented Multi-UV Control. IEEE Access, 2020, 8, 223101-223113.	2.6	1
15	DAG-Based Distributed Ledger for Low-Latency Smart Grid Network. Energies, 2019, 12, 3570.	1.6	19
16	UAV Flight and Landing Guidance System for Emergency Situations â€. Sensors, 2019, 19, 4468.	2.1	22
17	RC Function Virtualization - You Can Remote Control Drone Squadrons (poster). , 2019, , .		2
18	Pedestrian Positioning Using a Double-Stacked Particle Filter in Indoor Wireless Networks. Sensors, 2019, 19, 3907.	2.1	4

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19	Authentication and Delegation for Operating a Multi-Drone System. Sensors, 2019, 19, 2066.	2.1	12
20	Energy-Efficient Topology Control for UAV Networks. Energies, 2019, 12, 4523.	1.6	13
21	Analyzing Location Accuracy of Unmanned Vehicle According to RTCM Message Frequency of RTK-GPS. , 2019, , .		7
22	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
23	Integrated approach of streaming 3d multimedia contents in real-time for mobile devices. Multimedia Tools and Applications, 2018, 77, 1811-1842.	2.6	0
24	Adaptive Decision of Wireless Access Network for Higher User Satisfaction. Wireless Communications and Mobile Computing, 2018, 2018, 1-19.	0.8	5
25	Protecting Download Traffic from Upload Traffic over Asymmetric Wireless Links. Wireless Communications and Mobile Computing, 2018, 2018, 1-15.	0.8	1
26	Improving Reliability of Real-Time Remote Vehicle Control through Duplicating Control Packets. , 2018, , .		2
27	Ground Control System Based Routing for Reliable and Efficient Multi-Drone Control System. Applied Sciences (Switzerland), 2018, 8, 2027.	1.3	14
28	Formation Control Algorithm of Multi-UAV-Based Network Infrastructure. Applied Sciences (Switzerland), 2018, 8, 1740.	1.3	25
29	Drone Detection and Identification System using Artificial Intelligence. , 2018, , .		53
30	Simultaneous Attack on Drone and GCS in UAV Systems. , 2018, , .		3
31	Devising Mobile Sensing and Actuation Infrastructure with Drones. Sensors, 2018, 18, 624.	2.1	18
32	CoSimulating Communication Networks and Electrical System for Performance Evaluation in Smart Grid. Applied Sciences (Switzerland), 2018, 8, 85.	1.3	15
33	Cooperative Computing System for Heavy-Computation and Low-Latency Processing in Wireless Sensor Networks. Sensors, 2018, 18, 1686.	2.1	5
34	Indoor Pedestrian Localization Using iBeacon and Improved Kalman Filter. Sensors, 2018, 18, 1722.	2.1	28
35	AVSS: Airborne Video Surveillance System. Sensors, 2018, 18, 1939.	2.1	23
36	Designing interference‒aware network selection protocol for WLAN mobile devices. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2890.	2.6	2

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37	Empowering Drones' Teamwork with Airborne Network. , 2017, , .		8
38	Mobile device‐centric access point monitoring scheme for handover decision triggering in heterogeneous networks. International Journal of Communication Systems, 2017, 30, e3376.	1.6	2
39	Acoustic Localization without Synchronization. , 2017, , .		1
40	Wi-Fi Seeker: A link and Load Aware AP Selection Algorithm. IEEE Transactions on Mobile Computing, 2017, 16, 2366-2378.	3.9	18
41	Improving quality of multimedia services through network performance isolation in a mobile device. Multimedia Tools and Applications, 2017, 76, 5317-5346.	2.6	4
42	DROCS: Distributed multi-robot on-demand control system. , 2017, , .		1
43	Autonomous mission completion system for disconnected delivery drones in urban area. , 2017, , .		4
44	Future of IoT Networks: A Survey. Applied Sciences (Switzerland), 2017, 7, 1072.	1.3	141
45	CEPP: Perceiving the Emotional State of the User Based on Body Posture. Applied Sciences (Switzerland), 2017, 7, 978.	1.3	6
46	WiLD: Widening view angle for lesion detection with gastroscopic images. , 2016, , .		0
47	Drone formation algorithm on 3D space for a drone-based network infrastructure. , 2016, , .		10
48	Adaptive Transmission Scheme for TCP in Wireless Multi-Hop Network. , 2016, , .		0
49	Enhancing base station connectivity with directional information of movement. ICT Express, 2016, 2, 122-125.	3.3	1
50	Research on potential of sound-based direction sensing for drones. , 2016, , .		1
51	Constructing a reliable and fast recoverable network for drones. , 2016, , .		18
52	Devising geographic diffusion for drone networks. , 2016, , .		5
53	Securing mobile access with interactive image code and image key encryption. Security and Communication Networks, 2016, 9, 3412-3427.	1.0	1
54	Channel quality estimation using Bluetooth for other standards in the 2.4 GHz ISM band. , 2016, , .		2

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55	Devising a user collaboration scheme to automatically generate videos. Multimedia Tools and Applications, 2016, 75, 4615-4638.	2.6	1
56	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
57	On the Necessity of VM Migration: Simulation on Datacenter Network Resources. Wireless Personal Communications, 2016, 86, 1797-1812.	1.8	2
58	Handover Management of Net-Drones for Future Internet Platforms. International Journal of Distributed Sensor Networks, 2016, 12, 5760245.	1.3	20
59	Optimal coverage control for net-drone handover. , 2015, , .		15
60	MACoD: Mobile Device-Centric Approach for Identifying Access Point Congestion. , 2015, , .		1
61	Network Performance Isolation Scheme for QoE in a mobile device. , 2015, , .		0
62	Cross-layer modeling and analysis on delayed ACK in IEEE 802.11. , 2015, , .		0
63	AFAR: A robust and delay-constrained communication framework for smart grid applications. Computer Networks, 2015, 91, 1-25.	3.2	9
64	ReMA: Real-time 3D video streaming system for mobile devices. , 2014, , .		2
65	EMVideo: User collaboration framework for generating multimedia contents in social networks. , 2014, , .		1
66	D-mago: A novel visual entity for storing emotional feeling with visual imprint. , 2014, , .		0
67	Exploiting User Movement Direction and Hidden Access Point for Smartphone Localization. Wireless Personal Communications, 2014, 78, 1863-1878.	1.8	4
68	Heterogeneous cloud storage system for privacy. , 2014, , .		1
69	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
70	Microscale Analysis on Sensing Devices and Its Impact on Assessing User Mobility. , 2013, , .		0
71	A simulation study on Map/Reduce framework in wireless data center environment. , 2013, , .		3
72	Analyzing extent and influence of mobile device's participation in Mobile Cloud Computing. , 2013, , .		1

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73	CoSA: Adaptive link-aware real-time streaming for mobile devices. , 2013, , .		3
74	An Empirical Interference Modeling for Link Reliability Assessment in Wireless Networks. IEEE/ACM Transactions on Networking, 2013, 21, 272-285.	2.6	8
75	Exploiting user movement direction and hidden access point for smartphone localization. , 2013, , .		0
76	Automated methodology for gastric endoscopy in an e-health environment. , 2013, , .		1
77	Self-configuring topology switch in smart home network. , 2013, , .		0
78	FASE: Fast authentication system for e-health. , 2013, , .		5
79	Geo-fencing: Geographical-fencing based energy-aware proactive framework for mobile devices. , 2012, , .		11
80	QoE-driven Wi-Fi selection mechanism for next generation smartphones. , 2012, , .		2
81	Preserving privacy with anonymity for customer collaboration in smart grid. , 2012, , .		1
82	Populating Virtual Access Points for Localization in Sparse Wireless Networks. , 2012, , .		0
83	Bayesian navigation system with particle filtering and dead reckoning in urban canyon environments. , 2012, , .		2
84	Implementing home energy management system with UPnP and mobile applications. Computer Communications, 2012, 36, 51-62.	3.1	25
85	MR-CloudSim: Designing and implementing MapReduce computing model on CloudSim. , 2012, , .		34
86	Improving Location Estimation with Two-Tier Particle Filtering in Mobile Wireless Environment. , 2011, , .		1
87	Multi-sector multi-range control for self-organizing wireless networks. Journal of Network and Computer Applications, 2011, 34, 1848-1860.	5.8	8
88	A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids. IEEE Transactions on Smart Grid, 2011, 2, 759-769.	6.2	16
89	Enabling location-aware quality-controlled access in wireless networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	6
90	Fast performance assessment of IEEE 802.11-based wireless networks. Mathematical and Computer Modelling, 2011, 53, 2173-2191.	2.0	1

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91	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
92	Proactive searching period determination on singular radio mobile devices. , 2011, , .		0
93	TCP-aware bidirectional bandwidth allocation in IEEE 802.16 networks. Wireless Networks, 2010, 16, 2123-2138.	2.0	1
94	Sequential Monte Carlo Filtering for Location Estimation in Indoor Wireless Environments. , 2010, , .		1
95	Estimating Link Reliability in Wireless Networks: An Empirical Study and Interference Modeling. , 2010, , .		14
96	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
97	Enabling network calculus-based simulation for TCP congestion control. Computer Networks, 2009, 53, 1-24.	3.2	3
98	Refining Elusive User Registration Patterns for Empirical Mobility Models. , 2009, , .		0
99	Noncooperative carrier sense game in wireless networks. IEEE Transactions on Wireless Communications, 2009, 8, 5280-5289.	6.1	21
100	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
101	Dimensionality reduction based on ICA for regression problems. Neurocomputing, 2008, 71, 2596-2603.	3.5	24
102	SELECT: Self-Learning Collision Avoidance for Wireless Networks. IEEE Transactions on Mobile Computing, 2008, 7, 305-321.	3.9	15
103	A Cross-Layer Approach for Per-Station Fairness in TCP over WLANs. IEEE Transactions on Mobile Computing, 2008, 7, 898-911.	3.9	41
104	Bidirectional bandwidth allocation for TCP performance enhancement in mobile WiMAX networks. , 2008, , .		2
105	Angular MST-Based Topology Control for Multi-hop Wireless Ad Hoc Networks. ETRI Journal, 2008, 30, 341-343.	1.2	4
106	Mixed-mode simulation for IEEE 802.11-operated WLANs. Computer Networks, 2007, 51, 1379-1402.	3.2	5
107	Integrating network-calculus-based simulation with packet-level simulation for TCP-operated networks. Computer Networks, 2006, 50, 1995-2012.	3.2	5
108	Short-term nonuniform access in IEEE 802.11-compliant WLANs. , 2006, , .		3

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109	A fast simulation framework for IEEE 802.11-operated wireless LANs. , 2004, , .		11
110	A fast simulation framework for IEEE 802.11-operated wireless LANs. Performance Evaluation Review, 2004, 32, 143-154.	0.4	3
111	Improving protocol capacity with model-based frame scheduling in IEEE 802.11-operated WLANs. , 2003, , .		75
112	Enhancing gas detection-based swarming through deep reinforcement learning. Journal of Supercomputing, 0, , 1.	2.4	1