Pangun Park

List of Publications by Year
in descending order

51	1,711	471509	330143
papers	citations	17	37
		h-index	g-index

52	52	52	1650
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Network Design for Control Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 978-1013.	39.4	303
2	A generalized Markov chain model for effective analysis of slotted IEEE 802.15.4. , 2009, , .		163
3	Fault Detection and Diagnosis Using Combined Autoencoder and Long Short-Term Memory Network. Sensors, 2019, 19, 4612.	3.8	118
4	Modeling and Optimization of the IEEE 802.15.4 Protocol for Reliable and Timely Communications. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 550-564.	5.6	116
5	Electrically Activated Ultrathin PVDF–TrFE Air Filter for High–Efficiency $PM_{1.0}$ Filtration. Advanced Functional Materials, 2019, 29, 1903633.	14.9	100
6	Remarkable Output Power Density Enhancement of Triboelectric Nanogenerators *via* Polarized Ferroelectric Polymers and Bulk MoS_2 Composites. ACS Nano, 2019, 13, 4640-4646.	14.6	92
7	Breath: An Adaptive Protocol for Industrial Control Applications Using Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 821-838.	5.8	75
8	Wireless networked control system co-design. , 2011, , .		63
9	Analytical Modeling of Multi-hop IEEE 802.15.4 Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 3191-3208.	6.3	61
10	Minimum Energy Data Transmission for Wireless Networked Control Systems. IEEE Transactions on Wireless Communications, 2014, 13, 2163-2175.	9.2	45
11	Cross-Layer Optimization for Industrial Control Applications Using Wireless Sensor and Actuator Mesh Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 3250-3259.	7.9	43
12	Adaptive IEEE 802.15.4 protocol for energy efficient, reliable and timely communications. , 2010, , .		38
13	Duty-cycle optimization for IEEE 802.15.4 wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 10, 1-32.	3.6	35
14	Output power density enhancement of triboelectric nanogenerators via ferroelectric polymer composite interfacial layers. Nano Energy, 2020, 67, 104300.	16.0	33
15	High Confidence Networked Control for Next Generation Air Transportation Systems. IEEE Transactions on Automatic Control, 2014, 59, 3357-3372.	5.7	32
16	Modeling and stability analysis of hybrid multiple access in the IEEE 802.15.4 protocol. ACM Transactions on Sensor Networks, 2013, 9, 1-55.	3.6	30
17	Performance Analysis of GTS Allocation in Beacon Enabled IEEE 802.15.4. , 2009, , .		29
18	Role of a buried indium zinc oxide layer in the performance enhancement of triboelectric nanogenerators. Nano Energy, 2019, 55, 501-505.	16.0	28

#	ARTICLE	IF	CITATIONS
19	Polyvinylidene Fluoride Core–Shell Nanofiber Membranes with Highly Conductive Shells for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2021, 13, 25428-25437.	8.0	25
20	Analytical Modelling of IEEE 802.15.4 for Multi-Hop Networks with Heterogeneous Traffic and Hidden Terminals. , 2010, , .		24
21	Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. IEEE Internet of Things Journal, 2021, 8, 7745-7767.	8.7	24
22	Performance Comparison of Industrial Wireless Networks for Wireless Avionics Intra-Communications. IEEE Communications Letters, 2017, 21, 116-119.	4.1	17
23	A Bluetooth-Based Architecture for Contact Tracing in Healthcare Facilities. Journal of Sensor and Actuator Networks, 2021, 10, 2.	3.9	17
24	Realization of Electrically Small, Low-Profile Quasi-Isotropic Antenna Using 3D Printing Technology. IEEE Access, 2020, 8, 27067-27073.	4.2	16
25	Limitations and performances of robust control over WSN: UFAD control in intelligent buildings. IMA Journal of Mathematical Control and Information, 2010, 27, 527-543.	1.7	13
26	Robust Wireless Sensor and Actuator Networks for Networked Control Systems. Sensors, 2019, 19, 1535.	3.8	12
27	Design of an Electrically Small, Planar Quasi-Isotropic Antenna for Enhancement of Wireless Link Reliability under NLOS Channels. Applied Sciences (Switzerland), 2020, 10, 6204.	2.5	12
28	Delay distribution analysis of Wireless Personal Area Networks. , 2012, , .		11
29	Investigating Communication Infrastructure of Next Generation Air Traffic Management. , 2012, , .		11
30	Remaining Useful Life Estimation of Bearings Using Data-Driven Ridge Regression. Applied Sciences (Switzerland), 2020, 10, 8977.	2.5	11
31	Traffic Generation Rate Control of Wireless Sensor and Actuator Networks. IEEE Communications Letters, 2015, 19, 827-830.	4.1	10
32	Optimized Over-the-Air Computation for Wireless Control Systems. IEEE Communications Letters, 2022, 26, 424-428.	4.1	10
33	Power controlled fair access protocol for wireless networked control systems. Wireless Networks, 2015, 21, 1499-1516.	3.0	9
34	Markov chain model of fault-tolerant wireless networked control systems. Wireless Networks, 2019, 25, 2291-2303.	3.0	9
35	Performance Evaluation and Optimization of Communication Infrastructure for the Next Generation Air Transportation System. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1106-1116.	5.6	8
36	An ultraviolet and electric field activated photopolymer–ferroelectric nanoparticle composite for the performance enhancement of triboelectric nanogenerators. Nanoscale, 2018, 10, 20995-21000.	5.6	7

#	Article	IF	Citations
37	Hybrid Communication Protocols and Control Algorithms for NextGen Aircraft Arrivals. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 615-626.	8.0	6
38	Channel Measurement and Feasibility Test for Wireless Avionics Intra-Communications. Sensors, 2019, 19, 1294.	3.8	6
39	Proactive fault-tolerant wireless mesh networks for mission-critical control systems. Journal of Network and Computer Applications, 2021, 186, 103082.	9.1	6
40	Transmission Scheduling Schemes of Industrial Wireless Sensors for Heterogeneous Multiple Control Systems. Sensors, 2018, 18, 4284.	3.8	5
41	Robust Channel Allocation with Heterogeneous Requirements for Wireless Mesh Backbone Networks. Sensors, 2018, 18, 2687.	3.8	4
42	Wireless for Control: Over-the-Air Controller. IEEE Communications Letters, 2021, 25, 3437-3441.	4.1	4
43	Performance Enhancement of Flexible Polymer Triboelectric Generator through Polarization of the Embedded Ferroelectric Polymer Layer. Applied Sciences (Switzerland), 2021, 11, 1284.	2.5	4
44	A Dynamic Energy-efficient Protocol for Reliable and Timely Communications for Wireless Sensor Networks in Control and Automation. , 2009, , .		3
45	Time-Delay Estimation and Finite-Spectrum Assignment for Control Over Multi-Hop WSN. , 2011, , 135-152.		3
46	Adaptive IEEE 802.15.4 Medium Access Control Protocol for Control and Monitoring Applications. , 2011, , 271-300.		2
47	Control over a Hybrid MAC Wireless Network. , 2010, , .		1
48	Optimized Medium Access Probability for Networked Control Systems. The Journal of the Korean Institute of Information and Communication Engineering, 2015, 19, 2457-2464.	0.1	1
49	Determination of Number of Upstream Subcarriers to Minimize Cycle Time in OFDMA-PON Using Interleaved Polling Method. International Journal of Multimedia and Ubiquitous Engineering, 2016, 11, 223-228.	0.4	1
50	Architectures and Protocols for Wireless Sensor and Actuator Networks. Journal of Sensor and Actuator Networks, 2021, 10, 52.	3.9	0
51	Routing and Medium Access Control Interactions for Internet of Things. The Journal of the Korean Institute of Information and Communication Engineering, 2015, 19, 2465-2472.	0.1	0