Pangun Park

List of Publications by Year
in descending order

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51 papers	1,711 citations	471509 17 h-index	330143 37 g-index
52 all docs	52 docs citations	52 times ranked	1650 citing authors

#	Article	IF	Citations
1	Optimized Over-the-Air Computation for Wireless Control Systems. IEEE Communications Letters, 2022, 26, 424-428.	4.1	10
2	Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. IEEE Internet of Things Journal, 2021, 8, 7745-7767.	8.7	24
3	Wireless for Control: Over-the-Air Controller. IEEE Communications Letters, 2021, 25, 3437-3441.	4.1	4
4	Polyvinylidene Fluoride Coreâ€“Shell Nanofiber Membranes with Highly Conductive Shells for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2021, 13, 25428-25437.	8.0	25
5	Architectures and Protocols for Wireless Sensor and Actuator Networks. Journal of Sensor and Actuator Networks, 2021, 10, 52.	3.9	0
6	Proactive fault-tolerant wireless mesh networks for mission-critical control systems. Journal of Network and Computer Applications, 2021, 186, 103082.	9.1	6
7	Performance Enhancement of Flexible Polymer Triboelectric Generator through Polarization of the Embedded Ferroelectric Polymer Layer. Applied Sciences (Switzerland), 2021, 11, 1284.	2.5	4
8	A Bluetooth-Based Architecture for Contact Tracing in Healthcare Facilities. Journal of Sensor and Actuator Networks, 2021, 10, 2.	3.9	17
9	Output power density enhancement of triboelectric nanogenerators via ferroelectric polymer composite interfacial layers. Nano Energy, 2020, 67, 104300.	16.0	33
10	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
11	Remaining Useful Life Estimation of Bearings Using Data-Driven Ridge Regression. Applied Sciences (Switzerland), 2020, 10, 8977.	2.5	11
12	Realization of Electrically Small, Low-Profile Quasi-Isotropic Antenna Using 3D Printing Technology. IEEE Access, 2020, 8, 27067-27073.	4.2	16
13	Electrically Activated Ultrathin PVDFâ€TrFE Air Filter for Highâ€Efficiency PM_{1.0} Filtration. Advanced Functional Materials, 2019, 29, 1903633.	14.9	100
14	Fault Detection and Diagnosis Using Combined Autoencoder and Long Short-Term Memory Network. Sensors, 2019, 19, 4612.	3.8	118
15	Channel Measurement and Feasibility Test for Wireless Avionics Intra-Communications. Sensors, 2019, 19, 1294.	3.8	6
16	Robust Wireless Sensor and Actuator Networks for Networked Control Systems. Sensors, 2019, 19, 1535.	3.8	12
17	Remarkable Output Power Density Enhancement of Triboelectric Nanogenerators via Polarized Ferroelectric Polymers and Bulk MoS₂ Composites. ACS Nano, 2019, 13, 4640-4646.	14.6	92
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	Markov chain model of fault-tolerant wireless networked control systems. Wireless Networks, 2019, 25, 2291-2303.	3.0	9
20	Wireless Network Design for Control Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 978-1013.	39.4	303
21	Transmission Scheduling Schemes of Industrial Wireless Sensors for Heterogeneous Multiple Control Systems. Sensors, 2018, 18, 4284.	3.8	5
22	An ultraviolet and electric field activated photopolymerâ€“ferroelectric nanoparticle composite for the performance enhancement of triboelectric nanogenerators. Nanoscale, 2018, 10, 20995-21000.	5.6	7
23	Robust Channel Allocation with Heterogeneous Requirements for Wireless Mesh Backbone Networks. Sensors, 2018, 18, 2687.	3.8	4
24	Performance Comparison of Industrial Wireless Networks for Wireless Avionics Intra-Communications. IEEE Communications Letters, 2017, 21, 116-119.	4.1	17
25	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
26	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
27	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
28	Traffic Generation Rate Control of Wireless Sensor and Actuator Networks. IEEE Communications Letters, 2015, 19, 827-830.	4.1	10
29	Power controlled fair access protocol for wireless networked control systems. Wireless Networks, 2015, 21, 1499-1516.	3.0	9
30	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
31	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
32	Minimum Energy Data Transmission for Wireless Networked Control Systems. IEEE Transactions on Wireless Communications, 2014, 13, 2163-2175.	9.2	45
33	Hybrid Communication Protocols and Control Algorithms for NextGen Aircraft Arrivals. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 615-626.	8.0	6
34	High Confidence Networked Control for Next Generation Air Transportation Systems. IEEE Transactions on Automatic Control, 2014, 59, 3357-3372.	5.7	32
35	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
36	Duty-cycle optimization for IEEE 802.15.4 wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 10, 1-32.	3.6	35

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37	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
38	Delay distribution analysis of Wireless Personal Area Networks. , 2012, , .		11
39	Investigating Communication Infrastructure of Next Generation Air Traffic Management. , 2012, , .		11
40	Analytical Modeling of Multi-hop IEEE 802.15.4 Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 3191-3208.	6.3	61
41	Breath: An Adaptive Protocol for Industrial Control Applications Using Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 821-838.	5.8	75
42	Wireless networked control system co-design. , 2011, , .		63
43	Time-Delay Estimation and Finite-Spectrum Assignment for Control Over Multi-Hop WSN. , 2011, , 135-152.		3
44	Adaptive IEEE 802.15.4 Medium Access Control Protocol for Control and Monitoring Applications. , 2011, , 271-300.		2
45	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
46	Analytical Modelling of IEEE 802.15.4 for Multi-Hop Networks with Heterogeneous Traffic and Hidden Terminals. , 2010, , .		24
47	Adaptive IEEE 802.15.4 protocol for energy efficient, reliable and timely communications. , 2010, , .		38
48	Control over a Hybrid MAC Wireless Network. , 2010, , .		1
49	A generalized Markov chain model for effective analysis of slotted IEEE 802.15.4. , 2009, , .		163
50	Performance Analysis of GTS Allocation in Beacon Enabled IEEE 802.15.4. , 2009, , .		29
51	A Dynamic Energy-efficient Protocol for Reliable and Timely Communications for Wireless Sensor Networks in Control and Automation. , 2009, , .		3