

Wei Liang

List of Publications by Year in descending order

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42
papers

1,604
citations

567281

15
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyber Security and Privacy Issues in Smart Grids. IEEE Communications Surveys and Tutorials, 2012, 14, 981-997.	39.4	444
2	A survey of communication/networking in Smart Grids. Future Generation Computer Systems, 2012, 28, 391-404.	7.5	430
3	Energy-Efficiency Maximization for Cooperative Spectrum Sensing in Cognitive Sensor Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 29-39.	5.5	80
4	A Connectivity-Aware Approximation Algorithm for Relay Node Placement in Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 515-528.	4.7	71
5	WIA-FA and Its Applications to Digital Factory: A Wireless Network Solution for Factory Automation. Proceedings of the IEEE, 2019, 107, 1053-1073.	21.3	70
6	NSAC: A Novel Clustering Protocol in Cognitive Radio Sensor Networks for Internet of Things. IEEE Internet of Things Journal, 2019, 6, 5864-5865.	8.7	55
7	Detection Methods in Smart Meters for Electricity Thefts: A Survey. Proceedings of the IEEE, 2022, 110, 273-319.	21.3	40
8	ABSI: An Adaptive Binary Splitting Algorithm for Malicious Meter Inspection in Smart Grid. IEEE Transactions on Information Forensics and Security, 2019, 14, 445-458.	6.9	36
9	Fully Distributed Channel-Hopping Algorithms for Rendezvous Setup in Cognitive Multiradio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 8629-8643.	6.3	35
10	SMCSS: A Quick and Reliable Cooperative Spectrum Sensing Scheme for Cognitive Industrial Wireless Networks. IEEE Access, 2016, 4, 9308-9319.	4.2	26
11	PMU Placement Protection against Coordinated False Data Injection Attacks in Smart Grid. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	26
12	Relay Node Placement in Wireless Sensor Networks With Respect to Delay and Reliability Requirements. IEEE Systems Journal, 2019, 13, 2570-2581.	4.6	24
13	SAI: A Suspicion Assessment-Based Inspection Algorithm to Detect Malicious Users in Smart Grid. IEEE Transactions on Information Forensics and Security, 2020, 15, 361-374.	6.9	23
14	A Deviation-Based Detection Method Against False Data Injection Attacks in Smart Grid. IEEE Access, 2021, 9, 15499-15509.	4.2	22
15	SACR: A Stability-Aware Cluster-Based Routing Protocol for Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2021, 21, 17350-17359.	4.7	18
16	BCGI: A fast approach to detect malicious meters in neighborhood area smart grid. , 2015, , .		16
17	Relay Node Placement in Wireless Sensor Networks: From Theory to Practice. IEEE Transactions on Mobile Computing, 2021, 20, 1602-1613.	5.8	15
18	GTHI: A Heuristic Algorithm to Detect Malicious Users in Smart Grids. IEEE Transactions on Network Science and Engineering, 2020, 7, 805-816.	6.4	14

#	ARTICLE	IF	CITATIONS
19	A Short Preamble Cognitive MAC Protocol in Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2019, 19, 6530-6538.	4.7	13
20	Time-efficient cooperative spectrum sensing via analog computation over multiple-access channel. Computer Networks, 2017, 112, 84-94.	5.1	12
21	Detecting False Data Injection Attacks Using Canonical Variate Analysis in Power Grid. IEEE Transactions on Network Science and Engineering, 2021, 8, 971-983.	6.4	12
22	Reliable transmission scheduling for multi-channel wireless sensor networks with low-cost channel estimation. IET Communications, 2013, 7, 71-81.	2.2	11
23	Set-covering-based algorithm for delay constrained relay node placement in Wireless Sensor Networks. , 2016, , .		10
24	Automatic Global Level Set Approach for Lumbar Vertebrae CT Image Segmentation. BioMed Research International, 2018, 2018, 1-12.	1.9	9
25	Utility-based opportunistic spectrum access for cognitive radio sensor networks: joint spectrum sensing and random access control. IET Communications, 2016, 10, 1044-1052.	2.2	8
26	OPC UA-Based Smart Manufacturing: System Architecture, Implementation, and Execution. , 2017, , .		8
27	Convergecast Scheduling for Industrial Wireless Sensor Networks With Local Available Channel Sets. IEEE Sensors Journal, 2019, 19, 10764-10772.	4.7	8
28	Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. IEEE Internet of Things Journal, 2021, 8, 381-392.	8.7	8
29	AODR: An Automatic On-Demand Retransmission Scheme for WIA-FA Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 6094-6107.	6.3	8
30	An Experimental Evaluation of WIA-FA and IEEE 802.11 Networks for Discrete Manufacturing. IEEE Transactions on Industrial Informatics, 2021, 17, 6260-6271.	11.3	8
31	Visual Surveillance for Human Fall Detection in Healthcare IoT. IEEE MultiMedia, 2022, 29, 36-46.	1.7	8
32	Optimal Convergecast Scheduling Limits for Clustered Industrial Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 891321.	2.2	5
33	Difference-Comparison-based Malicious Meter Inspection in Neighborhood Area Networks in Smart Grid. Computer Journal, 2017, 60, 1852-1870.	2.4	5
34	Coded grouping-based inspection algorithms to detect malicious meters in neighborhood area smart grid. Computers and Security, 2018, 77, 547-564.	6.0	5
35	A Cell Reconstruction Tool to Deploy Binary Pyroelectric Sensor Arrays. IEEE Sensors Journal, 2020, 20, 2117-2131.	4.7	5
36	Optimal convergecast scheduling for hierarchical wireless industrial systems: performance bounds and two-stage algorithms. IET Communications, 2015, 9, 88-100.	2.2	4

#	ARTICLE	IF	CITATIONS
37	A Potential Game Approach for Decentralized Resource Coordination in Coexisting IWNs. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1118-1130.	7.9	4
38	The Maximum Number of Cells With Modulated Binary Sensors. IEEE Sensors Journal, 2021, 21, 11061-11074.	4.7	3
39	SPC-MAC: A short preamble cognitive MAC protocol for cognitive radio sensor networks. , 2018, , .		2
40	System Error Calibration in Large Datasets of Wireless Channel Sounding for Industrial Applications. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 3, 1-1.	3.9	2
41	Deploying Two-Tiered Wireless Sensor/Actuator Networks Supporting In-Network Computation. , 2020, , .		1
42	Utilizing Csiszar Divergences to Analyze Deployments of Binary Sensors with Modulators. , 2021, , .		0