Scheduling for IEEE802.15.4-TSCH and slow channel hop wireless networks: A survey

Computer Communications

114, 84-105

DOI: 10.1016/j.comcom.2017.10.004

Citation Report

#	Article	IF	Citations
1	Adaptive Multi-Channel Offset Assignment for Reliable IEEE 802.15.4 TSCH Networks. , 2018, , .		5
2	Multichannel MAC for Wireless Sensor Network applications. , 2018, , .		0
3	Cellular throughput optimization by game-based power adjustment and outband D2D communication. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	15
4	On the (over)-Reactions and the Stability of a 6TiSCH Network in an Indoor Environment. , 2018, , .		7
5	Low-Power Wireless for the Internet of Things: Standards and Applications. IEEE Access, 2018, 6, 67893-67926.	4.2	80
6	A Scheduler for Time Slotted Channel Hopping Networks supporting QoS Differentiated Services. , 2018, , .		2
7	Performance Modeling of IEEE 802.15.4-TSCH with Shared Access and ON-OFF traffic. , 2018, , .		3
8	Parallel Rendezvous-Based Association for IEEE 802.15.4 TSCH Networks. IEEE Sensors Journal, 2018, 18, 9005-9020.	4.7	16
9	Adaptive k-cast Scheduling for High-Reliability and Low-Latency in IEEE802.15.4-TSCH. Lecture Notes in Computer Science, 2018, , 3-14.	1.3	4
10	Experimental Analysis of the Efficiency of Shared Access in IEEE802.15.4-TSCH Networks with Sporadic Traffic. , 2018, , .		2
11	Efficient Resource Scheduling for Multipath Retransmission over Industrial WSAN Systems. Sensors, 2019, 19, 3927.	3.8	2
12	Transmission Scheduling of Periodic Real-Time Traffic in IEEE 802.15.4e TSCH-Based Industrial Mesh Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	1.2	6
13	Scheduling in 6TiSCH Networks via Max-Product Message-Passing. , 2019, , .		3
14	Formal Modeling of Greedy Behavior in Secure Internet of Things Networks. , 2019, , .		3
15	Data Management in Industry 4.0: State of the Art and Open Challenges. IEEE Access, 2019, 7, 97052-97093.	4.2	99
16	Denial-of-Sleep Attacks against IoT Networks. , 2019, , .		11
17	ASAP: A Decentralized Slot Reservation Policy for Dynamic 6TiSCH Networks in Industrial IoT. , 2019, , .		8
18	TESLA: Traffic-Aware Elastic Slotframe Adjustment in TSCH Networks. IEEE Access, 2019, 7, 130468-130483.	4.2	34

#	Article	IF	Citations
19	Experimental in-depth study of the dynamics of an indoor industrial low power lossy network. Ad Hoc Networks, 2019, 93, 101914.	5.5	5
20	Multipath aware scheduling for high reliability and fault tolerance in low power industrial networks. Journal of Network and Computer Applications, 2019, 142, 25-36.	9.1	17
21	Collision-Free Advertisement Scheduling for IEEE 802.15.4-TSCH Networks. Sensors, 2019, 19, 1789.	3.8	19
22	Whitelisting Without Collisions for Centralized Scheduling in Wireless Industrial Networks. IEEE Internet of Things Journal, 2019, 6, 5713-5721.	8.7	14
23	Enabling space time division multiple access in IETF 6TiSCH protocol. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 4151-4166.	1.4	0
24	Optimized Scheduling for Time-Critical Industrial IoT. , 2019, , .		5
25	Is Link-Layer Anycast Scheduling Relevant for IEEE 802.15.4-TSCH Networks?. , 2019, , .		2
26	Enhanced Minimal Scheduling Function for IEEE 802.15.4e TSCH Networks. , 2019, , .		15
27	Swarm-Based Energy Efficient Scheduling for Wireless Sensor Networks. , 2019, , .		3
28	Ultra-Low Latency (ULL) Networks: The IEEE TSN and IETF DetNet Standards and Related 5G ULL Research. IEEE Communications Surveys and Tutorials, 2019, 21, 88-145.	39.4	380
29	A survey on network formation and scheduling algorithms for time slotted channel hopping in industrial networks. Journal of Network and Computer Applications, 2019, 126, 59-87.	9.1	41
30	A distributed algorithm to schedule TSCH links under the SINR model. Design Automation for Embedded Systems, 2019, 23, 21-39.	1.0	4
31	Reliable Communication and Latency Bound Generation in Wireless Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-26.	2.5	3
32	Ad-Hoc, Mobile, and Wireless Networks. Lecture Notes in Computer Science, 2020, , .	1.3	28
33	A novel multi-objective optimizer framework for TDMA-based medium access control in IoT. CSI Transactions on ICT, 2020, 8, 319-330.	1.0	4
34	SA-RPL: a scheduling-aware forwarding mechanism in RPL/TSCH-operated networks. International Journal of Ad Hoc and Ubiquitous Computing, 2020, 34, 35.	0.5	1
35	Comparative Analysis of Traffic Prioritisation Algorithms in 6LOWPAN Networks. , 2020, , .		1
36	Dynamic Scheduling for Delay-Critical Packets in a Networked Control System Using WirelessHART. , 2020, , .		1

#	Article	IF	Citations
37	Local voting: A new distributed bandwidth reservation algorithm for 6TiSCH networks. Computer Networks, 2020, 180, 107384.	5.1	3
38	Survey on Wireless Technology Trade-Offs for the Industrial Internet of Things. Sensors, 2020, 20, 488.	3.8	66
39	Adaptive Backoff enabled WUR on non-cellular local IoT for extreme low power operation. Future Generation Computer Systems, 2020, 108, 62-67.	7.5	4
40	CoopStor: a cooperative reliable and efficient data collection protocol in fault and delay tolerant wireless networks. Wireless Networks, 2021, 27, 367-381.	3.0	2
41	Slot Reallocation and Rejection for Collision Avoidance in Autonomous TSCH Networks. IEEE Access, 2021, 9, 93816-93830.	4.2	2
42	6DYN : 6TiSCH with Heterogeneous Slot Durations. Sensors, 2021, 21, 1611.	3.8	7
43	Duty Cycle Control Method Considering Buffer Occupancy for IEEE 802.15.4-Compliant Heterogeneous Wireless Sensor Network. Applied Sciences (Switzerland), 2021, 11, 1362.	2.5	3
44	Distributed Channel Ranking Scheduling Function for Dense Industrial 6TiSCH Networks. Sensors, 2021, 21, 1593.	3.8	8
45	A Comprehensive Review on Energy Harvesting Integration in IoT Systems from MAC Layer Perspective: Challenges and Opportunities. Sensors, 2021, 21, 3097.	3.8	13
46	Thorough Performance Evaluation & Analysis of the 6TiSCH Minimal Scheduling Function (MSF). Journal of Signal Processing Systems, 2022, 94, 3-25.	2.1	3
47	Recorp: Receiver-oriented Policies for Industrial Wireless Networks. ACM Transactions on Sensor Networks, 2021, 17, 1-32.	3.6	3
48	An Artificial Intelligence-Based Quorum System for the Improvement of the Lifespan of Sensor Networks. IEEE Sensors Journal, 2021, 21, 17373-17385.	4.7	28
49	DIGEST: a decentralized divergecast scheduling algorithm for IEEE 802.15.4e TSCH in the internet of things. Wireless Networks, 2021, 27, 4535-4550.	3.0	5
50	Enabling Robust Wireless Communication for BMS on Electric Vehicles. , 2021, , .		2
51	Low-Level Wireless and Sensor Networks for Industry 4.0 Communication â€“ Presentation. Communications in Computer and Information Science, 2021, , 474-484.	0.5	3
52	Traffic-Adaptive CFP Extension for IEEE 802.15.4 DSME MAC in Industrial Wireless Sensor Networks. IEEE Access, 2021, 9, 94454-94469.	4.2	3
53	Optimal Initial Synchronization Time in the Minimal 6TiSCH Configuration. IEEE Access, 2021, 9, 69316-69334.	4.2	4
54	LDSF: Low-Latency Distributed Scheduling Function for Industrial Internet of Things. IEEE Internet of Things Journal, 2020, 7, 8688-8699.	8.7	26

#	Article	IF	Citations
55	TSCH Networks for Health IoT. ACM Transactions on Internet of Things, 2020, 1, 1-27.	4.6	20
56	The Trade-Offs of Cell Over-Provisioning in IEEE 802.15.4 TSCH Networks. Lecture Notes in Computer Science, 2018, , 132-137.	1.3	0
57	Convergecast in a TSCH Network Under a Physical Interference Model. Lecture Notes in Computer Science, 2019, , 77-89.	1.3	0
58	Analysis of the Network Attachment Delay of Mobile Devices in the Industrial Internet of Things. Lecture Notes in Computer Science, 2019, , 90-101.	1.3	2
59	TSCH Multiple Slotframe Scheduling for Ensuring Timeliness in TS-SWIPT-Enabled IoT Networks. Electronics (Switzerland), 2021, 10, 48.	3.1	2
60	Energy Saving in TSCH Networks by Means of Proactive Reduction of Idle Listening. Lecture Notes in Computer Science, 2020, , 131-144.	1.3	5
61	Link scheduling algorithm for industrial wireless networks applied to factory automation. IFAC-PapersOnLine, 2020, 53, 8231-8236.	0.9	2
62	Performance Evaluation of 6TiSCH Network with Multiple Physical Layers. , 2021, , .		0
63	Distributed Reliable and Energy-Efficient Scheduling for LR-WPANs. ACM Transactions on Sensor Networks, 2020, 16, 1-20.	3.6	2
64	Open research issues on management of industrial wireless sensor systems applied to process automation. Automatisierungstechnik, 2021, 69, 921-930.	0.8	0
65	Consumer Attitudes to the Smart Home Technologies and the Internet of Things (IoT). Energies, 2021, 14, 7913.	3.1	21
66	Duocast for Wireless Industrial Networks: an Experimental Study. , 2021, , .		1
67	Integration of Steerable Smart Antennas to IETF 6TiSCH Protocol for High Reliability Wireless IoT Networks. IEEE Access, 2021, 9, 147780-147790.	4.2	1
68	Enhanced Simulation Framework for Visualisation of IEEE 802.15.4 Frame Structure on Beacon Enabled Mode of ZigBee Sensor Network. , 2020, , .		3
69	Deterministic Scheduling Methods with Conflict Degree and Proportional Deadline in Industrial Wireless Sensor Networks. , 2021, , .		0
70	Scheduling UWB Ranging and Backbone Communications in a Pure Wireless Indoor Positioning System. IoT, 2022, 3, 219-258.	3.8	1
71	TSCH Multiflow Scheduling with QoS Guarantees: A Comparison of SDN with Common Schedulers. Applied Sciences (Switzerland), 2022, 12, 119.	2.5	5
72	A Survey of 802.15.4 TSCH Schedulers for a Standardized Industrial Internet of Things. Sensors, 2022, 22, 15.	3.8	23

#	Article	IF	Citations
73	6TiSCH â€“ IPv6 Enabled Open Stack IoT Network Formation: A Review. ACM Transactions on Internet of Things, 2022, 3, 1-36.	4.6	5
74	Traffic-Aware 6TiSCH Routing Method for IIoT Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 22709-22722.	8.7	3
76	Optimal Transmission Power and Controller Design for Networked Control Systems Under State-Dependent Markovian Channels. IEEE Transactions on Automatic Control, 2022, 67, 5669-5676.	5.7	5
77	Reinforcement Learning TDMA-Based MAC Scheduling in the Industrial Internet of Things: A Survey. IFAC-PapersOnLine, 2022, 55, 83-88.	0.9	6
78	Enhancement of the TSCH-Sim Simulator to Support Manual Scheduling and Routing. Procedia Computer Science, 2022, 203, 61-68.	2.0	1
79	Robust Network Protocols for Large Swarms of Small UAVs. , 2022, , .		2
80	SDN-TSCH: Enabling Software Defined Networking for Scheduled Wireless Networks with Traffic Isolation. , 2022, , .		6
81	PRM - Private Interference Discovery for IEEE 802.15. 4 Networks. , 2022, , .		1
82	DCS: Dilution-based Convergecast Scheduling in a TSCH network. Ad Hoc Networks, 2023, 146, 103173.	5.5	0
83	Adaptive Trickle Timer for Efficient 6TiSCH Network Formation Using Q-Learning. IEEE Access, 2023, 11, 37931-37943.	4.2	0
84	Development of a Network Manager Compatible with WirelessHART Standard. Journal of Control, Automation and Electrical Systems, 0, , .	2.0	0
85	Link Quality Estimation in Wireless Software Defined Network with a Reliable Control Plane. , 2023, , .		0
86	Traffic-Aware Reliable Scheduling in TSCH Networks for Industry 4.0: A Systematic Mapping Review. IEEE Communications Surveys and Tutorials, 2023, 25, 2834-2861.	39.4	2
88	An Efficient Anycast Mechanism for 802.15.4-TSCH to Improve QoS in IIoT. Journal of Sensors, 2023, 2023, 1-16.	1.1	0
89	Adaptive and Contract Aware Configuration for Industrial Wireless Networks. Ad Hoc Networks, 2024, 154, 103372.	5.5	0
90	A Quantum-Safe Software-Defined Deterministic Internet of Things (IoT) with Hardware-Enforced Cyber-Security for Critical Infrastructures. Information (Switzerland), 2024, 15, 173.	2.9	0