

Thomas Watteyne

List of Publications by Year in descending order

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63
papers

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331670
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64
all docs

64
docs citations

64
times ranked

3010
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Monitoring of the Sierra Nevada Snowpack Using Wireless Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 17185-17193.	8.7	15
2	Surviving the Hair Dryer: Continuous Calibration of a Crystal-Free Mote-on-Chip. IEEE Internet of Things Journal, 2022, 9, 4737-4747.	8.7	0
3	YSF: A 6TiSCH Scheduling Function Minimizing Latency of Data Gathering in IIoT. IEEE Internet of Things Journal, 2022, 9, 8607-8615.	8.7	8
4	Lightweight Authenticated Key Exchange With EDHOC. Computer, 2022, 55, 94-100.	1.1	4
5	Constrained Localization: A Survey. IEEE Access, 2022, 10, 49297-49321.	4.2	9
6	QuickCal: Assisted Calibration for Crystal-Free Micromotes. IEEE Internet of Things Journal, 2021, 8, 1846-1858.	8.7	4
7	g6TiSCH: Generalized 6TiSCH for Agile Multi-PHY Wireless Networking. IEEE Access, 2021, 9, 84465-84479.	4.2	9
8	Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. IEEE Internet of Things Journal, 2021, 8, 17429-17435.	8.7	9
9	6DYN : 6TiSCH with Heterogeneous Slot Durations. Sensors, 2021, 21, 1611.	3.8	7
10	Performance of the Transport Layer Security Handshake Over 6TiSCH. Sensors, 2021, 21, 2192.	3.8	2
11	Accelerating 6TiSCH Network Formation. , 2021, , .		2
12	Coordinating a Swarm of Micro-Robots Under Lossy Communication. , 2021, , .		1
13	IETF 6TiSCH: A Tutorial. IEEE Communications Surveys and Tutorials, 2020, 22, 595-615.	39.4	114
14	Accurate 3D Lighthouse Localization of a Low-Power Crystal-Free Single-Chip Mote. Journal of Microelectromechanical Systems, 2020, 29, 818-824.	2.5	4
15	No Free Lunch” Characterizing the Performance of 6TiSCH When Using Different Physical Layers. Sensors, 2020, 20, 4989.	3.8	9
16	Atlas: Exploration and Mapping with a Sparse Swarm of Networked IoT Robots. , 2020, , .		5
17	Industrial IoT with Crystal-Free Mote-on-Chip. , 2020, , .		2
18	<scp>6TiSCH</scp> minimal scheduling function: Performance evaluation. Internet Technology Letters, 2020, 3, e170.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Key Performance Indicators of the Reference 6TiSCH Implementation in Internet-of-Things Scenarios. IEEE Access, 2020, 8, 79147-79157.	4.2	13
20	6TiSCH on SC1/4M: Running a Synchronized Protocol Stack without Crystals. Sensors, 2020, 20, 1912.	3.8	9
21	Trace-based simulation for 6TiSCH. Internet Technology Letters, 2020, 3, e162.	1.9	5
22	Simulating 6TiSCH networks. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3494.	3.9	57
23	A Crystal-Free Single-Chip Micro Mote with Integrated 802.15.4 Compatible Transceiver, sub-mW BLE Compatible Beacon Transmitter, and Cortex M0. , 2019, , .		26
24	6LoWPAN Fragment Forwarding. IEEE Communications Standards Magazine, 2019, 3, 35-39.	4.9	13
25	OpenTestBed: Poor Man's IoT Testbed. , 2019, , .		19
26	Experimental Clock Calibration on a Crystal-Free Mote-on-a-Chip. , 2019, , .		7
27	Experimental Interference Robustness Evaluation of IEEE 802.15.4-2015 OQPSK-DSSS and SUN-OFDM Physical Layers for Industrial Communications. Electronics (Switzerland), 2019, 8, 1045.	3.1	12
28	Dynamic Channel Calibration on a Crystal-Free Mote-on-a-Chip. IEEE Access, 2019, 7, 120884-120900.	4.2	9
29	6TiSCH: Industrial Performance for IPv6 Internet-of-Things Networks. Proceedings of the IEEE, 2019, 107, 1153-1165.	21.3	38
30	Constructive Interference in 802.15.4: A Tutorial. IEEE Communications Surveys and Tutorials, 2019, 21, 217-237.	39.4	20
31	Using SmartMesh IP in Smart Agriculture and Smart Building applications. Computer Communications, 2018, 121, 83-90.	5.1	19
32	CCR: Cost-aware cell relocation in 6TiSCH networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3211.	3.9	7
33	Broadcasting strategies in 6TiSCH networks. Internet Technology Letters, 2018, 1, e15.	1.9	23
34	MABO-6TiSCH: Multihop and blacklist-based optimized time synchronized channel hopping. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3223.	3.9	35
35	Awa: Using water distribution systems to transmit data. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3219.	3.9	14
36	Moving Beyond Testbeds? Lessons (We) Learned About Connectivity. IEEE Pervasive Computing, 2018, 17, 15-27.	1.3	24

#	ARTICLE	IF	CITATIONS
37	On the Impact of WiFi on 2.4 GHz Industrial IoT Networks. , 2018, , .		3
38	SODA: 6TiSCH Open Data Action. , 2018, , .		6
39	Evaluation of IEEE802.15.4g for Environmental Observations. Sensors, 2018, 18, 3468.	3.8	27
40	Prediction of Frost Events Using Machine Learning and IoT Sensing Devices. IEEE Internet of Things Journal, 2018, 5, 4589-4597.	8.7	59
41	Overview of IEEE802.15.4g OFDM and its applicability to smart building applications. , 2018, , .		17
42	Understanding the Limits of LoRaWAN. , 2017, 55, 34-40.		943
43	A Machine-Learning-Based Connectivity Model for Complex Terrain Large-Scale Low-Power Wireless Deployments. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 576-584.	7.9	67
44	Real-Time Alpine Measurement System Using Wireless Sensor Networks. Sensors, 2017, 17, 2583.	3.8	26
45	Distributed PID-Based Scheduling for 6TiSCH Networks. IEEE Communications Letters, 2016, 20, 1006-1009.	4.1	64
46	LLSF: Low Latency Scheduling Function for 6TiSCH Networks. , 2016, , .		43
47	(Not so) intuitive results from a smart agriculture low-power wireless mesh deployment. , 2016, , .		6
48	Simple Distributed Scheduling With Collision Detection in TSCH Networks. IEEE Sensors Journal, 2016, 16, 5848-5849.	4.7	34
49	Industrial Wireless IP-Based Cyber â€“Physical Systems. Proceedings of the IEEE, 2016, 104, 1025-1038.	21.3	70
50	On-the-Fly Bandwidth Reservation for 6TiSCH Wireless Industrial Networks. IEEE Sensors Journal, 2016, 16, 550-560.	4.7	109
51	PEACH: Predicting Frost Events in Peach Orchards Using IoT Technology. EAI Endorsed Transactions on Internet of Things, 2016, 2, 151711.	1.1	26
52	OpenMote: Open-Source Prototyping Platform for the Industrial IoT. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 211-222.	0.3	61
53	Industrial IEEE802.15.4e networks: Performance and trade-offs. , 2015, , .		57
54	Adaptive synchronization in multi-hop TSCH networks. Computer Networks, 2015, 76, 165-176.	5.1	60

#	ARTICLE	IF	CITATIONS
55	6TiSCH: deterministic IP-enabled industrial internet (of things). , 2014, 52, 36-41.		210
56	A Realistic Energy Consumption Model for TSCH Networks. IEEE Sensors Journal, 2014, 14, 482-489.	4.7	130
57	Adaptive Synchronization in IEEE802.15.4e Networks. IEEE Transactions on Industrial Informatics, 2014, 10, 795-802.	11.3	89
58	Standardized Protocol Stack for the Internet of (Important) Things. IEEE Communications Surveys and Tutorials, 2013, 15, 1389-1406.	39.4	581
59	IETF 6TSCH: Combining IPv6 Connectivity with Industrial Performance. , 2013, , .		41
60	Technical Overview of SmartMesh IP. , 2013, , .		41
61	OpenWSN: a standardsâ€based lowâ€power wireless development environment. Transactions on Emerging Telecommunications Technologies, 2012, 23, 480-493.	3.9	228
62	Reliability through frequency diversity. , 2009, , .		162
63	Bringing life out of diversity: Boosting network lifetime using multiâ€PHY routing in RPL. Transactions on Emerging Telecommunications Technologies, 0, , .	3.9	0