

Xenofon Fafoutis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7119291/publications.pdf>

Version: 2024-02-01

84
papers

1,580
citations

471509

17
h-index

434195

31
g-index

90
all docs

90
docs citations

90
times ranked

1731
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Survey of Industrial Internet of Things Security: Requirements and Fog Computing Opportunities. IEEE Communications Surveys and Tutorials, 2020, 22, 2489-2520.	39.4	225
2	A Comprehensive Study of Activity Recognition Using Accelerometers. Informatics, 2018, 5, 27.	3.9	98
3	Enabling Healthcare in Smart Homes: The SPHERE IoT Network Infrastructure. IEEE Communications Magazine, 2018, 56, 164-170.	6.1	97
4	ODMAC. , 2011, , .		75
5	From Best Effort to Deterministic Packet Delivery for Wireless Industrial IoT Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 4468-4480.	11.3	65
6	An Ultra Low Power Personalizable Wrist Worn ECG Monitor Integrated With IoT Infrastructure. IEEE Access, 2018, 6, 44010-44021.	4.2	63
7	A multi-modal sensor infrastructure for healthcare in a residential environment. , 2015, , .		48
8	Receiver-initiated medium access control protocols for wireless sensor networks. Computer Networks, 2015, 76, 55-74.	5.1	48
9	SPHERE: A Sensor Platform for Healthcare in a Residential Environment. , 2017, , 315-333.		47
10	Extending the battery lifetime of wearable sensors with embedded machine learning. , 2018, , .		46
11	CRC Error Correction in IoT Applications. IEEE Transactions on Industrial Informatics, 2017, 13, 361-369.	11.3	32
12	Energy-efficient medium access control for energy harvesting communications. IEEE Transactions on Consumer Electronics, 2015, 61, 402-410.	3.6	27
13	A residential maintenance-free long-term activity monitoring system for healthcare applications. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	27
14	Temperature-Resilient Time Synchronization for the Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 2241-2250.	11.3	26
15	Microsecond-Accuracy Time Synchronization Using the IEEE 802.15.4 TSCH Protocol. , 2016, , .		25
16	Physical layer secret-key generation with discreet cosine transform for the Internet of Things. , 2017, , .		24
17	Experiences and Lessons Learned From Making IoT Sensing Platforms for Large-Scale Deployments. IEEE Access, 2018, 6, 3140-3148.	4.2	24
18	<sc>TSCH</sc> coverâ€LoRA</sc>: long range and reliable <sc>IPv6</sc> multiâ€hop networks for the internet of things. Internet Technology Letters, 2020, 3, e165.	1.9	24

#	ARTICLE	IF	CITATIONS
19	Designing Wearable Sensing Platforms for Healthcare in a Residential Environment. EAI Endorsed Transactions on Pervasive Health and Technology, 2017, 3, 153063.	0.9	24
20	Adaptive channel selection in IEEE 802.15.4 TSCH networks. , 2017, , .		22
21	Analytical comparison of MAC schemes for Energy Harvesting — Wireless Sensor Networks. , 2012, , .		21
22	Privacy Leakage of Physical Activity Levels in Wireless Embedded Wearable Systems. IEEE Signal Processing Letters, 2017, 24, 136-140.	3.6	21
23	Scheduling High-Rate Unpredictable Traffic in IEEE 802.15.4 TSCH Networks. , 2017, , .		20
24	TSCH Networks for Health IoT. ACM Transactions on Internet of Things, 2020, 1, 1-27.	4.6	20
25	On Predicting the Battery Lifetime of IoT Devices. , 2018, , .		19
26	Energy efficient heart rate sensing using a painted electrode ECG wearable. , 2017, , .		17
27	Towards a systematic survey of industrial IoT security requirements. , 2019, , .		17
28	Efficient DCT-based secret key generation for the Internet of Things. Ad Hoc Networks, 2019, 92, 101744.	5.5	17
29	A Survey on Machine Learning Software-Defined Wireless Sensor Networks (ML-SDWSNs): Current Status and Major Challenges. IEEE Access, 2022, 10, 23560-23592.	4.2	17
30	Guard time optimisation and adaptation for energy efficient multi-hop TSCH networks. , 2016, , .		16
31	Internet of Things for smart homes: Lessons learned from the SPHERE case study. , 2017, , .		16
32	Adaptive static scheduling in IEEE 802.15.4 TSCH networks. , 2018, , .		15
33	Time-Slotted LoRa Networks: Design Considerations, Implementations, and Perspectives. IEEE Internet of Things Magazine, 2021, 4, 84-89.	2.6	15
34	Impact of Guard Time Length on IEEE 802.15.4e TSCH Energy Consumption. , 2016, , .		14
35	Energy Harvesting - Wireless Sensor Networks for Indoors Applications Using IEEE 802.11. Procedia Computer Science, 2014, 32, 991-996.	2.0	13
36	Adaptive Security in ODMAC for Multihop Energy Harvesting Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 760302.	2.2	12

#	ARTICLE	IF	CITATIONS
37	Investigation into off-body links for wrist mounted antennas in bluetooth systems. , 2015, , .		10
38	Mitigating packet loss in connectionless Bluetooth Low Energy. , 2015, , .		10
39	Off-Body Antenna Wireless Performance Evaluation in a Residential Environment. IEEE Transactions on Antennas and Propagation, 2017, 65, 6076-6084.	5.1	10
40	SPHERE in a Box: Practical and Scalable EurValve Activity Monitoring Smart Home Kit. , 2017, , .		10
41	Fix it, don't bin it! - CRC error correction in Bluetooth Low Energy. , 2015, , .		9
42	Adaptive media access control for energy harvesting — Wireless sensor networks. , 2012, , .		8
43	An RSSI-based wall prediction model for residential floor map construction. , 2015, , .		8
44	Energy Neutral Activity Monitoring: Wearables Powered by Smart Inductive Charging Surfaces. , 2016, , .		8
45	Energy-Efficient, Noninvasive Water Flow Sensor. , 2018, , .		8
46	TSCH Evaluation under Heterogeneous Mobile Scenarios. IoT, 2021, 2, 656-668.	3.8	8
47	Timing Channels in Bluetooth Low Energy. IEEE Communications Letters, 2016, 20, 1587-1590.	4.1	7
48	From Bits of Data to Bits of Knowledgeâ€”An On-Board Classification Framework for Wearable Sensing Systems. Sensors, 2020, 20, 1655.	3.8	7
49	Detecting and Preventing Beacon Replay Attacks in Receiver-Initiated MAC Protocols for Energy Efficient WSNs. Lecture Notes in Computer Science, 2013, , 1-16.	1.3	7
50	AlertMe: A Semantics-Based Context-Aware Notification System. , 2009, , .		6
51	Sustainable medium access control: Implementation and evaluation of ODMAC. , 2013, , .		6
52	SHAKE: SHared Acceleration Key Establishment for Resource-Constrained IoT Devices. , 2020, , .		6
53	A Discreet Wearable Long-Range Emergency System Based on Embedded Machine Learning. , 2021, , .		6
54	Altruistic Backoff: Collision Avoidance for Receiver-Initiated MAC Protocols for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 576401.	2.2	6

#	ARTICLE	IF	CITATIONS
55	On cross-language consonant identification in second language noise. Journal of the Acoustical Society of America, 2015, 138, 2206-2209.	1.1	5
56	A Primer for TinyML Predictive Maintenance: Input and Model Optimisation. IFIP Advances in Information and Communication Technology, 2022, , 67-78.	0.7	5
57	Medium access control for thermal energy harvesting in advanced metering infrastructures. , 2013, , .		4
58	Sustainable performance in energy harvesting. , 2013, , .		4
59	CRC error correction for energy-constrained transmission. , 2015, , .		4
60	Speech Identification and Comprehension in the Urban Soundscape. Environments - MDPI, 2018, 5, 56.	3.3	4
61	Rethinking IoT Network Reliability in the Era of Machine Learning. , 2019, , .		4
62	Towards battery-free LPWAN wearables. , 2019, , .		4
63	Handover Incentives for Self-Interested WLANs with Overlapping Coverage. IEEE Transactions on Mobile Computing, 2012, 11, 2033-2046.	5.8	3
64	Practical limits of the secret key-capacity for IoT physical layer security. , 2016, , .		3
65	Link quality and path based clustering in IEEE 802.15.4-2015 TSCH networks. , 2017, , .		3
66	Word Spotting in Background Music: a Behavioural Study. Cognitive Computation, 2019, 11, 711-718.	5.2	3
67	Multi-Source Time Synchronization in IEEE Std 802.15.4-2015 TSCH Networks. Internet Technology Letters, 2020, 3, e148.	1.9	3
68	How Well Can Driverless Vehicles Hear? An Introduction to Auditory Perception for Autonomous and Smart Vehicles. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 92-105.	3.8	3
69	Guard Time Optimisation for Energy Efficiency in IEEE 802.15.4-2015 TSCH Links. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 56-63.	0.3	3
70	BLE or IEEE 802.15.4: Which Home IoT Communication Solution is more Energy-Efficient?. EAI Endorsed Transactions on Internet of Things, 2016, 2, 151713.	1.1	3
71	rTLS: Lightweight TLS Session Resumption for Constrained IoT Devices. Lecture Notes in Computer Science, 2020, , 243-258.	1.3	3
72	Performance Incentives for Cooperation between Wireless Mesh Network Operators. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
73	SPHERE Deployment Manager: A Tool for Deploying IoT Sensor Networks at Large Scale. Lecture Notes in Computer Science, 2018, , 307-318.	1.3	2
74	Robustness analytics to data heterogeneity in edge computing. Computer Communications, 2020, 164, 229-239.	5.1	2
75	Adaptive Guard Time for Energy-Efficient IEEE 802.15.4 TSCH Networks. Lecture Notes in Computer Science, 2019, , 15-26.	1.3	2
76	A Behavioral Study on the Effects of Rock Music on Auditory Attention. Lecture Notes in Computer Science, 2013, , 15-26.	1.3	2
77	rTLS: Secure and Efficient TLS Session Resumption for the Internet of Things. Sensors, 2021, 21, 6524.	3.8	2
78	Handover Incentives for WLANs with Overlapping Coverage. Lecture Notes in Computer Science, 2009, , 146-158.	1.3	2
79	Supervised Machine Learning and Feature Selection for a Document Analysis Application. , 2020, , .		2
80	Radiation Pattern Analysis of Single and Multi-Antenna Wearable Systems. , 2016, , .		1
81	CoMP: Efficient Monitoring for Constrained Embedded Devices. , 2020, , .		1
82	A Constrained Monitoring Protocol for the Internet of Things. Journal of Signal Processing Systems, 2022, 94, 45-64.	2.1	1
83	AntibloTic: The Fog-enhanced distributed security system to protect the (legacy) Internet of Things. Journal of Computer Security, 2022, 30, 689-725.	0.8	1
84	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