Xenofon Fafoutis

List of Publications by Year
in descending order

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	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
2	A Constrained Monitoring Protocol for the Internet of Things. Journal of Signal Processing Systems, 2022, 94, 45-64.	2.1	1
3	AntibIoTic: The Fog-enhanced distributed security system to protect the (legacy) Internet of Things. Journal of Computer Security, 2022, 30, 689-725.	0.8	1
4	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
5	A Primer forÂtinyML Predictive Maintenance: Input andÂModel Optimisation. IFIP Advances in Information and Communication Technology, 2022, , 67-78.	0.7	5
6	Time-Slotted LoRa Networks: Design Considerations, Implementations, and Perspectives. IEEE Internet of Things Magazine, 2021, 4, 84-89.	2.6	15
7	A Discreet Wearable Long-Range Emergency System Based on Embedded Machine Learning. , 2021, , .		6
8	rTLS: Secure and Efficient TLS Session Resumption for the Internet of Things. Sensors, 2021, 21, 6524.	3.8	2
9	TSCH Evaluation under Heterogeneous Mobile Scenarios. IoT, 2021, 2, 656-668.	3.8	8
10	Multiâ€Source Time Synchronization in IEEE Std 802.15.4â€2015 TSCH Networks. Internet Technology Letters, 2020, 3, e148.	1.9	3
11	Robustness analytics to data heterogeneity in edge computing. Computer Communications, 2020, 164, 229-239.	5.1	2
12	SHAKE: SHared Acceleration Key Establishment for Resource-Constrained IoT Devices. , 2020, , .		6
13	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
14	CoMP: Efficient Monitoring for Constrained Embedded Devices. , 2020, , .		1
15	From Bits of Data to Bits of Knowledgeâ€"An On-Board Classification Framework for Wearable Sensing Systems. Sensors, 2020, 20, 1655.	3.8	7
16	<scp>TSCHâ€overâ€LoRA</scp>: long range and reliable <scp>IPv6</scp> multiâ€hop networks for the internet of things. Internet Technology Letters, 2020, 3, e165.	1.9	24
17	TSCH Networks for Health IoT. ACM Transactions on Internet of Things, 2020, 1, 1-27.	4.6	20
18	Supervised Machine Learning and Feature Selection for a Document Analysis Application. , 2020, , .		2

#	Article	IF	Citations
19	rTLS: Lightweight TLS Session Resumption for Constrained IoT Devices. Lecture Notes in Computer Science, 2020, , 243-258.	1.3	3
20	Word Spotting in Background Music: a Behavioural Study. Cognitive Computation, 2019, 11, 711-718.	5.2	3
21	Towards a systematic survey of industrial IoT security requirements. , 2019, , .		17
22	Rethinking IoT Network Reliability in the Era of Machine Learning. , 2019, , .		4
23	Towards battery-free LPWAN wearables. , 2019, , .		4
24	Efficient DCT-based secret key generation for the Internet of Things. Ad Hoc Networks, 2019, 92, 101744.	5.5	17
25	Adaptive Guard Time for Energy-Efficient IEEE 802.15.4 TSCH Networks. Lecture Notes in Computer Science, 2019, , 15-26.	1.3	2
26	Temperature-Resilient Time Synchronization for the Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 2241-2250.	11.3	26
27	Experiences and Lessons Learned From Making IoT Sensing Platforms for Large-Scale Deployments. IEEE Access, 2018, 6, 3140-3148.	4.2	24
28	Speech Identification and Comprehension in the Urban Soundscape. Environments - MDPI, 2018, 5, 56.	3.3	4
29	On Predicting the Battery Lifetime of IoT Devices. , 2018, , .		19
30	Enabling Healthcare in Smart Homes: The SPHERE IoT Network Infrastructure. IEEE Communications Magazine, 2018, 56, 164-170.	6.1	97
31	SPHERE Deployment Manager: A Tool for Deploying IoT Sensor Networks at Large Scale. Lecture Notes in Computer Science, 2018, , 307-318.	1.3	2
32	Adaptive static scheduling in IEEE 802.15.4 TSCH networks. , 2018, , .		15
33	A Comprehensive Study of Activity Recognition Using Accelerometers. Informatics, 2018, 5, 27.	3.9	98
34	From Best Effort to Deterministic Packet Delivery for Wireless Industrial IoT Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 4468-4480.	11.3	65
35	Extending the battery lifetime of wearable sensors with embedded machine learning. , 2018, , .		46
36	Energy-Efficient, Noninvasive Water Flow Sensor. , 2018, , .		8

#	Article	IF	Citations
37	An Ultra Low Power Personalizable Wrist Worn ECG Monitor Integrated With IoT Infrastructure. IEEE Access, 2018, 6, 44010-44021.	4.2	63
38	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
39	SPHERE: A Sensor Platform for Healthcare in a Residential Environment. , 2017, , 315-333.		47
40	Privacy Leakage of Physical Activity Levels in Wireless Embedded Wearable Systems. IEEE Signal Processing Letters, 2017, 24, 136-140.	3.6	21
41	Internet of Things for smart homes: Lessons learned from the SPHERE case study. , 2017, , .		16
42	Energy efficient heart rate sensing using a painted electrode ECG wearable. , 2017, , .		17
43	Physical layer secret-key generation with discreet cosine transform for the Internet of Things. , 2017, , .		24
44	CRC Error Correction in IoT Applications. IEEE Transactions on Industrial Informatics, 2017, 13, 361-369.	11.3	32
45	Scheduling High-Rate Unpredictable Traffic in IEEE 802.15.4 TSCH Networks. , 2017, , .		20
46	Off-Body Antenna Wireless Performance Evaluation in a Residential Environment. IEEE Transactions on Antennas and Propagation, 2017, 65, 6076-6084.	5.1	10
47	SPHERE in a Box: Practical and Scalable EurValve Activity Monitoring Smart Home Kit. , 2017, , .		10
48	Adaptive channel selection in IEEE 802.15.4 TSCH networks. , 2017, , .		22
49	Link quality and path based clustering in IEEE 802.15.4-2015 TSCH networks. , 2017, , .		3
50	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
51	DesigningWearable Sensing Platforms for Healthcare in a Residential Environment. EAI Endorsed Transactions on Pervasive Health and Technology, 2017, 3, 153063.	0.9	24
52	Guard time optimisation and adaptation for energy efficient multi-hop TSCH networks. , 2016, , .		16
53	Practical limits of the secret key-capacity for IoT physical layer security. , 2016, , .		3
54	Microsecond-Accuracy Time Synchronization Using the IEEE 802.15.4 TSCH Protocol. , 2016, , .		25

#	Article	IF	Citations
55	Radiation Pattern Analysis of Single and Multi-Antenna Wearable Systems. , 2016, , .		1
56	Impact of Guard Time Length on IEEE 802.15.4e TSCH Energy Consumption. , 2016, , .		14
57	Energy Neutral Activity Monitoring: Wearables Powered by Smart Inductive Charging Surfaces. , 2016, , .		8
58	A residential maintenance-free long-term activity monitoring system for healthcare applications. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	27
59	Timing Channels in Bluetooth Low Energy. IEEE Communications Letters, 2016, 20, 1587-1590.	4.1	7
60	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
61	Fix it, don't bin it! - CRC error correction in Bluetooth Low Energy. , 2015, , .		9
62	Adaptive Security in ODMAC for Multihop Energy Harvesting Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 760302.	2.2	12
63	On cross-language consonant identification in second language noise. Journal of the Acoustical Society of America, 2015, 138, 2206-2209.	1.1	5
64	An RSSI-based wall prediction model for residential floor map construction. , 2015, , .		8
65	Investigation into off-body links for wrist mounted antennas in bluetooth systems. , 2015, , .		10
66	Mitigating packet loss in connectionless Bluetooth Low Energy. , 2015, , .		10
67	CRC error correction for energy-constrained transmission. , 2015, , .		4
68	Energy-efficient medium access control for energy harvesting communications. IEEE Transactions on Consumer Electronics, 2015, 61, 402-410.	3.6	27
69	A multi-modal sensor infrastructure for healthcare in a residential environment. , 2015, , .		48
70	Receiver-initiated medium access control protocols for wireless sensor networks. Computer Networks, 2015, 76, 55-74.	5.1	48
71	Energy Harvesting - Wireless Sensor Networks for Indoors Applications Using IEEE 802.11. Procedia Computer Science, 2014, 32, 991-996.	2.0	13
72	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
73	Sustainable medium access control: Implementation and evaluation of ODMAC. , 2013, , .		6
74	Medium access control for thermal energy harvesting in advanced metering infrastructures. , 2013, , .		4
75	Sustainable performance in energy harvesting. , 2013, , .		4
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	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
78	Handover Incentives for Self-Interested WLANs with Overlapping Coverage. IEEE Transactions on Mobile Computing, 2012, 11, 2033-2046.	5.8	3
79	Adaptive media access control for energy harvesting — Wireless sensor networks. , 2012, , .		8
80	Analytical comparison of MAC schemes for Energy Harvesting &#x2014; Wireless Sensor Networks. , 2012, , .		21
81	ODMAC. , 2011, , .		75
82	Performance Incentives for Cooperation between Wireless Mesh Network Operators. , 2010, , .		2
83	AlertMe: A Semantics-Based Context-Aware Notification System. , 2009, , .		6
84	Handover Incentives for WLANs with Overlapping Coverage. Lecture Notes in Computer Science, 2009, , 146-158.	1.3	2