

Petros Spachos

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,889
citations

394286

19
h-index

414303

32
g-index

79
all docs

79
docs citations

79
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	RSSI-Based Indoor Localization With the Internet of Things. IEEE Access, 2018, 6, 30149-30161.	2.6	353
2	Machine learning based solutions for security of Internet of Things (IoT): A survey. Journal of Network and Computer Applications, 2020, 161, 102630.	5.8	266
3	BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. IEEE Systems Journal, 2020, 14, 3483-3493.	2.9	135
4	Deep learning and machine vision for food processing: A survey. Current Research in Food Science, 2021, 4, 233-249.	2.7	113
5	Wireless technologies for smart agricultural monitoring using internet of things devices with energy harvesting capabilities. Computers and Electronics in Agriculture, 2020, 172, 105338.	3.7	88
6	Microlocation for Smart Buildings in the Era of the Internet of Things: A Survey of Technologies, Techniques, and Approaches. IEEE Signal Processing Magazine, 2018, 35, 140-152.	4.6	73
7	Real-Time Indoor Carbon Dioxide Monitoring Through Cognitive Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 506-514.	2.4	66
8	Improving BLE Beacon Proximity Estimation Accuracy Through Bayesian Filtering. IEEE Internet of Things Journal, 2020, 7, 3160-3169.	5.5	66
9	Memoryless Techniques and Wireless Technologies for Indoor Localization With the Internet of Things. IEEE Internet of Things Journal, 2020, 7, 10996-11005.	5.5	57
10	Scalable Dynamic Routing Protocol for Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2014, 14, 2257-2266.	2.4	52
11	Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. IEEE Systems Journal, 2020, 14, 3371-3382.	2.9	43
12	COVID-19 and Your Smartphone: BLE-Based Smart Contact Tracing. IEEE Systems Journal, 2021, 15, 5367-5378.	2.9	37
13	BLE Beacons in the Smart City: Applications, Challenges, and Research Opportunities. IEEE Internet of Things Magazine, 2020, 3, 14-18.	2.0	34
14	Solar-Powered Smart Agricultural Monitoring System Using Internet of Things Devices. , 2018, , .		33
15	Integration of Wireless Sensor Networks and Smart UAVs for Precision Viticulture. IEEE Internet Computing, 2019, 23, 8-16.	3.2	31
16	Energy efficiency and accuracy of solar powered BLE beacons. Computer Communications, 2018, 119, 94-100.	3.1	29
17	Using cloud and fog computing for large scale IoT-based urban sound classification. Simulation Modelling Practice and Theory, 2020, 101, 102013.	2.2	25
18	Support vector machine and YOLO for a mobile food grading system. Internet of Things (Netherlands), 2021, 13, 100359.	4.9	24

#	ARTICLE	IF	CITATIONS
19	Optimization of BLE Beacon Density for RSSI-Based Indoor Localization. , 2019, , .		22
20	Internet-of-Things Devices and Assistive Technologies for Health Care: Applications, Challenges, and Opportunities. IEEE Signal Processing Magazine, 2021, 38, 65-77.	4.6	22
21	Performance evaluation of beacons for indoor localization in smart buildings. , 2017, , .		21
22	LoRa-based Localization System for Emergency Services in GPS-less Environments. , 2019, , .		21
23	IoT-Based Smart Home Device Monitor Using Private Blockchain Technology and Localization. IEEE Networking Letters, 2021, 3, 52-55.	1.5	20
24	Designing learned CO ₂ -based occupancy estimation in smart buildings. IET Wireless Sensor Systems, 2018, 8, 249-255.	1.3	18
25	Towards a Low-Cost Precision Viticulture System Using Internet of Things Devices. IoT, 2020, 1, 5-20.	2.3	15
26	Belief Condensation Filtering for RSSI-Based State Estimation in Indoor Localization. , 2019, , .		14
27	Impact of technical and Content Quality on Overall Experience of OTT video. , 2016, , .		12
28	Towards Image Classification with Machine Learning Methodologies for Smartphones. Machine Learning and Knowledge Extraction, 2019, 1, 1039-1057.	3.2	12
29	Understanding the relationships between performance metrics and QoE for Over-The-Top video. , 2016, , .		11
30	A scalable IoT-fog framework for urban sound sensing. Computer Communications, 2020, 153, 302-310.	3.1	11
31	Enhanced Indoor Navigation System with Beacons and Kalman Filters. , 2018, , .		10
32	Comparison of RSSI-Based Indoor Localization for Smart Buildings with Internet of Things. , 2018, , .		10
33	Self-Powered Wireless Sensor Network for Environmental Monitoring. , 2015, , .		9
34	A quantitative relationship between Application Performance Metrics and Quality of Experience for Over-The-Top video. Computer Networks, 2018, 142, 194-207.	3.2	9
35	Wellness assessment through environmental sensors and smartphones. , 2017, , .		8
36	Using mobile environment sensors for wellness monitoring. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
37	Epidemic Exposure Tracking With Wearables: A Machine Learning Approach to Contact Tracing. IEEE Access, 2022, 10, 14134-14148.	2.6	7
38	A Kernel Method to Nonlinear Location Estimation With RSS-Based Fingerprint. IEEE Transactions on Mobile Computing, 2023, 22, 4388-4404.	3.9	7
39	Personal Devices for Contact Tracing: Smartphones and Wearables to Fight Covid-19. IEEE Communications Magazine, 2021, 59, 24-29.	4.9	6
40	Voice Activated IoT Devices for Healthcare: Design Challenges and Emerging Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3101-3107.	2.2	6
41	Capturing User Behavior in Subjective Quality Assessment of OTT Video Service. , 2016, , .		5
42	Power management modelling of a photovoltaic system for a wireless sensor network. , 2016, , .		5
43	Butterfly Classification with Machine Learning Methodologies for an Android Application. , 2019, , .		5
44	An Experimental Framework for Wellness Assessment Using the Internet of Things. IEEE Internet Computing, 2020, 24, 8-17.	3.2	5
45	Subjective QoE assessment on video service: Laboratory controllable approach. , 2017, , .		4
46	Energy Consumption and Proximity Accuracy of BLE Beacons for Internet of Things Applications. , 2018, , .		4
47	Permissioned Blockchain-Driven Internet of Things Gateway Using Bluetooth Low Energy. , 2020, , .		4
48	Integrated OPM wireless for Smart Home. , 2016, , .		3
49	Wireless noise prevention for mobile agents in smart home. , 2017, , .		3
50	Distributed Sensor Network for Indirect Occupancy Measurement in Smart Buildings. , 2018, , .		3
51	A Testbed for Adaptive Microphones in Ultra-Low-Power Systems. , 2019, , .		3
52	Speech Recognition Driven Assistive Framework for Remote Patient Monitoring. , 2019, , .		3
53	Food Grading System Using Support Vector Machine and YOLOv3 Methods. , 2020, , .		3
54	Smartphone-Based Wellness Assessment Using Mobile Environmental Sensors. IEEE Systems Journal, 2021, 15, 1989-1999.	2.9	3

#	ARTICLE	IF	CITATIONS
55	Makf-Sr: Multi-Agent Adaptive Kalman Filtering-Based Successor Representations. , 2021, , .		3
56	Network coding in internet of things. , 2016, , .		2
57	WiFi throughput and power consumption tradeoffs in smartphones. , 2017, , .		2
58	Power consumption of prototyping boards for smart room temperature monitoring. , 2017, , .		2
59	A Smartphone-based Wellness Assessment Using Mobile Sensors. , 2018, , .		2
60	BLE Beacon Based Patient Tracking in Smart Care Facilities. , 2018, , .		2
61	Fog and IoT-based Remote Patient Monitoring Architecture Using Speech Recognition. , 2020, , .		2
62	Non-Gaussian BLE-Based Indoor Localization Via Gaussian Sum Filtering Coupled with Wasserstein Distance. , 2020, , .		2
63	Public-Key Reinforced Blockchain Platform for Fog-IoT Network System Administration. IEEE Internet of Things Journal, 2022, 9, 22366-22374.	5.5	2
64	Low-Power Low-Cost Audio Front-End for Keyword Spotting. , 2020, , .		2
65	A Fast Item Identification and Counting in Ultra-dense Beacon Networks. , 2020, , .		2
66	Energy-Efficient Overlay Protocol for BLE Beacon-Based Mesh Network. IEEE Transactions on Mobile Computing, 2023, 22, 2709-2724.	3.9	2
67	Hierarchical Deep Learning Model with Inertial and Physiological Sensors Fusion for Wearable-Based Human Activity Recognition. , 2022, , .		2
68	Self-powered wireless sensor network with energy conscious opportunistic routing. , 2016, , .		1
69	Energy Efficient Bike-Share Tracking System with BLE Beacons and LoRa Technology. , 2019, , .		1
70	Experimental Comparison of Energy Consumption and Proximity Accuracy of BLE Beacons. , 2019, , .		1
71	Low Power Data Acquisition System for Noise Pollution Monitoring. , 2020, , .		1
72	Demo Abstract: Indoor Air Quality Monitoring Using a Virtual Customer Premise Edge. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	Power Management Scheme of a Photovoltaic System for Self-Powered Internet of Things. , 2018, , .		0
74	Netview: A User-Centric Network Coverage Application. , 2018, , .		0
75	Beacons and the City: Smart Internet of Things. , 2018, , 757-776.		0
76	Measuring Noise Pollution by Utilizing Bluetooth Low Energy Beacons. , 2021, , .		0
77	Guest editorial: Smart computing for smart cities. IET Smart Cities, 2022, 4, 1-2.	1.6	0
78	Permissioned Blockchain Reinforced API Platform for Data Management in IoT-based Sensor Networks. , 2021, , .		0