Petros Spachos

List of Publications by Year
in descending order

78 papers	1,889 citations	448610 19 h-index	466096 32 g-index
79 all docs	79 docs citations	79 times ranked	1724 citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Efficient Overlay Protocol for BLE Beacon-Based Mesh Network. IEEE Transactions on Mobile Computing, 2023, 22, 2709-2724.	3.9	2
2	A Kernel Method to Nonlinear Location Estimation With RSS-Based Fingerprint. IEEE Transactions on Mobile Computing, 2023, 22, 4388-4404.	3.9	7
3	Public-Key Reinforced Blockchain Platform for Fog-IoT Network System Administration. IEEE Internet of Things Journal, 2022, 9, 22366-22374.	5.5	2
4	Epidemic Exposure Tracking With Wearables: A Machine Learning Approach to Contact Tracing. IEEE Access, 2022, 10, 14134-14148.	2.6	7
5	Guest editorial: Smart computing for smart cities. IET Smart Cities, 2022, 4, 1-2.	1.6	0
6	Hierarchical Deep Learning Model with Inertial and Physiological Sensors Fusion for Wearable-Based Human Activity Recognition. , 2022, , .		2
7	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
8	Smartphone-Based Wellness Assessment Using Mobile Environmental Sensors. IEEE Systems Journal, 2021, 15, 1989-1999.	2.9	3
9	Support vector machine and YOLO for a mobile food grading system. Internet of Things (Netherlands), 2021, 13, 100359.	4.9	24
10	Makf-Sr: Multi-Agent Adaptive Kalman Filtering-Based Successor Representations. , 2021, , .		3
11	IoT-Based Smart Home Device Monitor Using Private Blockchain Technology and Localization. IEEE Networking Letters, 2021, 3, 52-55.	1.5	20
12	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
13	Deep learning and machine vision for food processing: A survey. Current Research in Food Science, 2021, 4, 233-249.	2.7	113
14	COVID-19 and Your Smartphone: BLE-Based Smart Contact Tracing. IEEE Systems Journal, 2021, 15, 5367-5378.	2.9	37
15	Personal Devices for Contact Tracing: Smartphones and Wearables to Fight Covid-19. IEEE Communications Magazine, 2021, 59, 24-29.	4.9	6
16	Measuring Noise Pollution by Utilizing Bluetooth Low Energy Beacons. , 2021, , .		0
17	Permissioned Blockchain Reinforced API Platform for Data Management in IoT-based Sensor Networks. , 2021, , .		0
18	Using cloud and fog computing for large scale IoT-based urban sound classification. Simulation Modelling Practice and Theory, 2020, 101, 102013.	2.2	25

#	Article	IF	Citations
19	Fog and IoT-based Remote Patient Monitoring Architecture Using Speech Recognition. , 2020, , .		2
20	Food Grading System Using Support Vector Machine and YOLOv3 Methods. , 2020, , .		3
21	Permissioned Blockchain-Driven Internet of Things Gateway Using Bluetooth Low Energy. , 2020, , .		4
22	Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. IEEE Systems Journal, 2020, 14, 3371-3382.	2.9	43
23	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
24	An Experimental Framework for Wellness Assessment Using the Internet of Things. IEEE Internet Computing, 2020, 24, 8-17.	3.2	5
25	A scalable IoT-fog framework for urban sound sensing. Computer Communications, 2020, 153, 302-310.	3.1	11
26	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
27	Towards a Low-Cost Precision Viticulture System Using Internet of Things Devices. IoT, 2020, 1, 5-20.	2.3	15
28	BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. IEEE Systems Journal, 2020, 14, 3483-3493.	2.9	135
29	Improving BLE Beacon Proximity Estimation Accuracy Through Bayesian Filtering. IEEE Internet of Things Journal, 2020, 7, 3160-3169.	5.5	66
30	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
31	Non-Gaussian BLE-Based Indoor Localization Via Gaussian Sum Filtering Coupled with Wasserstein Distance. , 2020, , .		2
32	BLE Beacons in the Smart City: Applications, Challenges, and Research Opportunities. IEEE Internet of Things Magazine, 2020, 3, 14-18.	2.0	34
33	Low Power Data Acquisition System for Noise Pollution Monitoring. , 2020, , .		1
34	Low-Power Low-Cost Audio Front-End for Keyword Spotting. , 2020, , .		2
35	A Fast Item Identification and Counting in Ultra-dense Beacon Networks. , 2020, , .		2
36	Energy Efficient Bike-Share Tracking System with BLE Beacons and LoRa Technology. , 2019, , .		1

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37	Optimization of BLE Beacon Density for RSSI-Based Indoor Localization. , 2019, , .		22
38	LoRa-based Localization System for Emergency Services in GPS-less Environments. , 2019, , .		21
39	Towards Image Classification with Machine Learning Methodologies for Smartphones. Machine Learning and Knowledge Extraction, 2019, 1, 1039-1057.	3.2	12
40	A Testbed for Adaptive Microphones in Ultra-Low-Power Systems. , 2019, , .		3
41	Belief Condensation Filtering for RSSI-Based State Estimation in Indoor Localization. , 2019, , .		14
42	Speech Recognition Driven Assistive Framework for Remote Patient Monitoring. , 2019, , .		3
43	Butterfly Classification with Machine Learning Methodologies for an Android Application. , 2019, , .		5
44	Experimental Comparison of Energy Consumption and Proximity Accuracy of BLE Beacons. , 2019, , .		1
45	Integration of Wireless Sensor Networks and Smart UAVs for Precision Viticulture. IEEE Internet Computing, 2019, 23, 8-16.	3.2	31
46	Energy efficiency and accuracy of solar powered BLE beacons. Computer Communications, 2018, 119, 94-100.	3.1	29
47	Energy Consumption and Proximity Accuracy of BLE Beacons for Internet of Things Applications. , 2018, , .		4
48	Power Management Scheme of a Photovoltaic System for Self-Powered Internet of Things. , 2018, , .		0
49	Enhanced Indoor Navigation System with Beacons and Kalman Filters. , 2018, , .		10
50	Comparison of RSSI-Based Indoor Localization for Smart Buildings with Internet of Things. , 2018, , .		10
51	Solar-Powered Smart Agricultural Monitoring System Using Internet of Things Devices. , 2018, , .		33
52	A Smartphone-based Wellness Assessment Using Mobile Sensors. , 2018, , .		2
53	Netview: A User-Centric Network Coverage Application. , 2018, , .		0
54	Designing learned CO_2 â€based occupancy estimation in smart buildings. IET Wireless Sensor Systems, 2018, 8, 249-255.	1.3	18

#	Article	IF	Citations
55	Distributed Sensor Network for Indirect Occupancy Measurement in Smart Buildings. , 2018, , .		3
56	BLE Beacon Based Patient Tracking in Smart Care Facilities. , 2018, , .		2
57	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
58	Beacons and the City: Smart Internet of Things. , 2018, , 757-776.		0
59	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
60	RSSI-Based Indoor Localization With the Internet of Things. IEEE Access, 2018, 6, 30149-30161.	2.6	353
61	Wireless noise prevention for mobile agents in smart home. , 2017, , .		3
62	WiFi throughput and power consumption tradeoffs in smartphones. , 2017, , .		2
63	Wellness assessment through environmental sensors and smartphones. , 2017, , .		8
64	Subjective QoE assessment on video service: Laboratory controllable approach. , 2017, , .		4
65	Performance evaluation of beacons for indoor localization in smart buildings. , 2017, , .		21
66	Power consumption of prototyping boards for smart room temperature monitoring. , 2017, , .		2
67	Capturing User Behavior in Subjective Quality Assessment of OTT Video Service. , 2016, , .		5
68	Network coding in internet of things. , 2016, , .		2
69	Using mobile environment sensors for wellness monitoring. , 2016, , .		7
70	Self-powered wireless sensor network with energy conscious opportunistic routing. , 2016, , .		1
71	Power management modelling of a photovoltaic system for a wireless sensor network. , 2016, , .		5
72	Demo Abstract: Indoor Air Quality Monitoring Using a Virtual Customer Premise Edge. , 2016, , .		0

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73	Integrated OPM wireless for Smart Home. , 2016, , .		3
74	Understanding the relationships between performance metrics and QoE for Over-The-Top video. , 2016, , .		11
75	Impact of technical and Content Quality on Overall Experience of OTT video. , 2016, , .		12
76	Real-Time Indoor Carbon Dioxide Monitoring Through Cognitive Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 506-514.	2.4	66
77	Self-Powered Wireless Sensor Network for Environmental Monitoring. , 2015, , .		9
78	Scalable Dynamic Routing Protocol for Cognitive Radio Sensor Networks. IEEE Sensors Journal, 2014, 14, 2257-2266.	2.4	52