Fakhrul Alam

List of Publications by Year
in descending order

46 papers	875 citations	567281 15 h-index	526287 27 g-index
46 all docs	46 docs citations	46 times ranked	691 citing authors

#	Article	IF	Citations
1	An Accurate Visible Light Positioning System Using Regenerated Fingerprint Database Based on Calibrated Propagation Model. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2714-2723.	4.7	76
2	Gaussian Process Model Predictive Control of an Unmanned Quadrotor. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 147-162.	3.4	73
3	Multi-Layer Blockchain-Based Security Architecture for Internet of Things. Sensors, 2021, 21, 772.	3.8	68
4	Hyperledger Fabric Blockchain for Securing the Edge Internet of Things. Sensors, 2021, 21, 359.	3.8	55
5	Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. IEEE Internet of Things Journal, 2021, 8, 4228-4249.	8.7	51
6	Low Cost Sensor With IoT LoRaWAN Connectivity and Machine Learning-Based Calibration for Air Pollution Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	45
7	Accurate Visible Light Positioning Using Multiple-Photodiode Receiver and Machine Learning. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	38
8	Device-Free Localization Systems Utilizing Wireless RSSI: A Comparative Practical Investigation. IEEE Sensors Journal, 2019, 19, 2747-2757.	4.7	32
9	Watchers on the Wall: Passive Visible Light-Based Positioning and Tracking With Embedded Light-Sensors on the Wall. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2522-2532.	4.7	32
10	Indoor localization of mobile robot with visible light communication. , 2016, , .		28
11	SpringLoc: A Device-Free Localization Technique for Indoor Positioning and Tracking Using Adaptive RSSI Spring Relaxation. IEEE Access, 2019, 7, 56960-56973.	4.2	28
12	FieldLight: Device-Free Indoor Human Localization Using Passive Visible Light Positioning and Artificial Potential Fields. IEEE Sensors Journal, 2020, 20, 1054-1066.	4.7	28
13	Falcon: Fused Application of Light Based Positioning Coupled With Onboard Network Localization. IEEE Access, 2018, 6, 36155-36167.	4.2	22
14	Indoor Visible Light Positioning Using Spring-Relaxation Technique in Real-World Setting. IEEE Access, 2019, 7, 91347-91359.	4.2	19
15	Visible Light Positioning Based on Calibrated Propagation Model. , 2019, 3, 1-4.		19
16	IoT Big Data provenance scheme using blockchain on Hadoop ecosystem. Journal of Big Data, 2021, 8, .	11.0	19
17	Gaussian Process Model Predictive Control of unmanned quadrotors. , 2016, , .		17
18	Gaussian process model predictive control of unknown non‑linear systems. IET Control Theory and Applications, 2017, 11, 703-713.	2.1	17

#	Article	IF	Citations
19	CapLoc: Capacitive Sensing Floor for Device-Free Localization and Fall Detection. IEEE Access, 2020, 8, 187353-187364.	4.2	16
20	Adaptive energy detection for cognitive radio: An experimental study. , 2009, , .		15
21	Do RSSI values reliably map to RSS in a localization system?. , 2017, , .		15
22	Experimental Performance Analysis of a Scalable Distributed Hyperledger Fabric for a Large-Scale IoT Testbed. Sensors, 2022, 22, 4868.	3.8	15
23	Smart Wall: Passive Visible Light Positioning with Ambient Light Only. , 2019, , .		13
24	A Novel Weighted Clustering Algorithm Supported by a Distributed Architecture for D2D Enabled Content-Centric Networks. Sensors, 2020, 20, 5509.	3.8	12
25	IoT Enabled Low Cost Air Quality Sensor. , 2020, , .		12
26	The effects of interference on the RSSI values of a ZigBee based indoor localization system. , 2017, , .		11
27	Improved Distance Metrics for Histogram-Based Device-Free Localization. IEEE Sensors Journal, 2019, 19, 8940-8950.	4.7	11
28	A Machine Learning Approach to Enhance the Performance of D2D-Enabled Clustered Networks. IEEE Access, 2021, 9, 16114-16132.	4.2	8
29	Ultrasonic guided wave measurement in a wooden rod using shear transducer arrays. Ultrasonics, 2022, 119, 106583.	3.9	8
30	Analysis of Depth Cameras for Proximal Sensing of Grapes. Sensors, 2022, 22, 4179.	3.8	8
31	Occluded Grape Cluster Detection and Vine Canopy Visualisation Using an Ultrasonic Phased Array. Sensors, 2021, 21, 2182.	3.8	7
32	Autonomous Fingerprinting and Large Experimental Data Set for Visible Light Positioning. Sensors, 2021, 21, 3256.	3.8	7
33	Accurate Ultrasound Indoor Localization Using Spring-Relaxation Technique. Electronics (Switzerland), 2021, 10, 1290.	3.1	7
34	Device-Free Localization Using Privacy-Preserving Infrared Signatures Acquired From Thermopiles and Machine Learning. IEEE Access, 2021, 9, 81786-81797.	4.2	7
35	Gaussian Process based Model Predictive Control for Linear Time Varying systems. , 2016, , .		6
36	Entity tracking within a Zigbee based smart home. , 2016, , .		5

#	Article	IF	Citations
37	HVLP: Hybrid visible light positioning of a mobile robot. , 2017, , .		5
38	Fingerprint-Based Visible Light Positioning using Multiple Photodiode Receiver. , 2020, , .		4
39	A Stacked Neural Network-Based Machine Learning Framework to Detect Activities and Falls Within Multiple Indoor Environments Using Wi-Fi CSI. , 2021, 5, 1-4.		4
40	Particle swarm optimization for convolved Gaussian process models. , 2014, , .		3
41	Device Free Localization with Capacitive Sensing Floor. , 2020, , .		3
42	LifeCount: A Device-free CSI-based Human Counting Solution for Emergency Building Evacuations. , 2020, , .		3
43	Machine Learning Techniques for Device-Free Localization Using Low-Resolution Thermopiles. IEEE Internet of Things Journal, 2022, 9, 18681-18694.	8.7	3
44	Modeling, simulation and experimental validation of fatigue behavior of thin-film titanium membranes. Microsystem Technologies, 2019, 25, 3489-3501.	2.0	0
45	Acoustic Identification of Grape Clusters Occluded by Foliage. , 2020, , .		0
46	Machine Learning Applications for Heterogeneous Networks. , 2021, , 1-17.		0