

Fakhrul Alam

List of Publications by Year in descending order

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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	Ultrasonic guided wave measurement in a wooden rod using shear transducer arrays. Ultrasonics, 2022, 119, 106583.	3.9	8
2	Machine Learning Techniques for Device-Free Localization Using Low-Resolution Thermopiles. IEEE Internet of Things Journal, 2022, 9, 18681-18694.	8.7	3
3	Analysis of Depth Cameras for Proximal Sensing of Grapes. Sensors, 2022, 22, 4179.	3.8	8
4	Experimental Performance Analysis of a Scalable Distributed Hyperledger Fabric for a Large-Scale IoT Testbed. Sensors, 2022, 22, 4868.	3.8	15
5	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
6	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
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	Hyperledger Fabric Blockchain for Securing the Edge Internet of Things. Sensors, 2021, 21, 359.	3.8	55
9	Multi-Layer Blockchain-Based Security Architecture for Internet of Things. Sensors, 2021, 21, 772.	3.8	68
10	Machine Learning Applications for Heterogeneous Networks. , 2021, , 1-17.		0
11	Occluded Grape Cluster Detection and Vine Canopy Visualisation Using an Ultrasonic Phased Array. Sensors, 2021, 21, 2182.	3.8	7
12	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
13	Autonomous Fingerprinting and Large Experimental Data Set for Visible Light Positioning. Sensors, 2021, 21, 3256.	3.8	7
14	Accurate Ultrasound Indoor Localization Using Spring-Relaxation Technique. Electronics (Switzerland), 2021, 10, 1290.	3.1	7
15	IoT Big Data provenance scheme using blockchain on Hadoop ecosystem. Journal of Big Data, 2021, 8, .	11.0	19
16	A Machine Learning Approach to Enhance the Performance of D2D-Enabled Clustered Networks. IEEE Access, 2021, 9, 16114-16132.	4.2	8
17	Device-Free Localization Using Privacy-Preserving Infrared Signatures Acquired From Thermopiles and Machine Learning. IEEE Access, 2021, 9, 81786-81797.	4.2	7
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A Novel Weighted Clustering Algorithm Supported by a Distributed Architecture for D2D Enabled Content-Centric Networks. Sensors, 2020, 20, 5509.	3.8	12
21	IoT Enabled Low Cost Air Quality Sensor. , 2020, , .		12
22	Fingerprint-Based Visible Light Positioning using Multiple Photodiode Receiver. , 2020, , .		4
23	Device Free Localization with Capacitive Sensing Floor. , 2020, , .		3
24	CapLoc: Capacitive Sensing Floor for Device-Free Localization and Fall Detection. IEEE Access, 2020, 8, 187353-187364.	4.2	16
25	Acoustic Identification of Grape Clusters Occluded by Foliage. , 2020, , .		0
26	LifeCount: A Device-free CSI-based Human Counting Solution for Emergency Building Evacuations. , 2020, , .		3
27	Indoor Visible Light Positioning Using Spring-Relaxation Technique in Real-World Setting. IEEE Access, 2019, 7, 91347-91359.	4.2	19
28	Improved Distance Metrics for Histogram-Based Device-Free Localization. IEEE Sensors Journal, 2019, 19, 8940-8950.	4.7	11
29	Smart Wall: Passive Visible Light Positioning with Ambient Light Only. , 2019, , .		13
30	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
31	Visible Light Positioning Based on Calibrated Propagation Model. , 2019, 3, 1-4.		19
32	Modeling, simulation and experimental validation of fatigue behavior of thin-film titanium membranes. Microsystem Technologies, 2019, 25, 3489-3501.	2.0	0
33	Device-Free Localization Systems Utilizing Wireless RSSI: A Comparative Practical Investigation. IEEE Sensors Journal, 2019, 19, 2747-2757.	4.7	32
34	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
35	Falcon: Fused Application of Light Based Positioning Coupled With Onboard Network Localization. IEEE Access, 2018, 6, 36155-36167.	4.2	22
36	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
37	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
38	Do RSSI values reliably map to RSS in a localization system?. , 2017, , .		15
39	The effects of interference on the RSSI values of a ZigBee based indoor localization system. , 2017, , .		11
40	HVLP: Hybrid visible light positioning of a mobile robot. , 2017, , .		5
41	Gaussian Process based Model Predictive Control for Linear Time Varying systems. , 2016, , .		6
42	Entity tracking within a Zigbee based smart home. , 2016, , .		5
43	Indoor localization of mobile robot with visible light communication. , 2016, , .		28
44	Gaussian Process Model Predictive Control of unmanned quadrotors. , 2016, , .		17
45	Particle swarm optimization for convolved Gaussian process models. , 2014, , .		3
46	Adaptive energy detection for cognitive radio: An experimental study. , 2009, , .		15