Syed Aziz Shah

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8163523/publications.pdf

Version: 2024-02-01

72 papers	1,817 citations	218381 26 h-index	301761 39 g-index
75 all docs	75 docs citations	75 times ranked	1067 citing authors

#	Article	IF	Citations
1	Multiple Participantsâ€™ Discrete Activity Recognition in a Well-Controlled Environment Using Universal Software Radio Peripheral Wireless Sensing. Sensors, 2022, 22, 809.	2.1	10
2	Machine learning empowered COVID-19 patient monitoring using non-contact sensing: An extensive review. Journal of Pharmaceutical Analysis, 2022, 12, 193-204.	2.4	30
3	Novel Privacy Preserving Non-Invasive Sensing-Based Diagnoses of Pneumonia Disease Leveraging Deep Network Model. Sensors, 2022, 22, 461.	2.1	10
4	Data portability for activities of daily living and fall detection in different environments using radar micro-doppler. Neural Computing and Applications, 2022, 34, 7933-7953.	3.2	12
5	IoT Based Fall Detection System for Elderly Healthcare. Studies in Computational Intelligence, 2022, , 209-232.	0.7	6
6	DBGC: Dimension-Based Generic Convolution Block for Object Recognition. Sensors, 2022, 22, 1780.	2.1	33
7	Personalized wearable electrodermal sensing-based human skin hydration level detection for sports, health and wellbeing. Scientific Reports, 2022, 12, 3715.	1.6	8
8	Design and Evaluation of a Button Sensor Antenna for On-Body Monitoring Activity in Healthcare Applications. Micromachines, 2022, 13, 475.	1.4	4
9	Wireless on Walls: Revolutionizing the future of health care. IEEE Antennas and Propagation Magazine, 2021, 63, 87-93.	1.2	12
10	Privacy-Preserving Wandering Behavior Sensing in Dementia Patients Using Modified Logistic and Dynamic Newton Leipnik Maps. IEEE Sensors Journal, 2021, 21, 3669-3679.	2.4	23
11	Non-Invasive RF Sensing for Detecting Breathing Abnormalities Using Software Defined Radios. IEEE Sensors Journal, 2021, 21, 5111-5118.	2.4	19
12	Granular Data Access Control with a Patient-Centric Policy Update for Healthcare. Sensors, 2021, 21, 3556.	2.1	8
13	Design of Portable Exoskeleton Forearm for Rehabilitation of Monoparesis Patients Using Tendon Flexion Sensing Mechanism for Health Care Applications. Electronics (Switzerland), 2021, 10, 1279.	1.8	6
14	Radar Sensing for Activity Classification in Elderly People Exploiting Micro-Doppler Signatures Using Machine Learning. Sensors, 2021, 21, 3881.	2.1	30
15	RF Sensing Based Breathing Patterns Detection Leveraging USRP Devices. Sensors, 2021, 21, 3855.	2.1	18
16	Antenna Installation and Location Qualification Aircraft using Computational Electromagnetic Tools. , 2021, , .		2
17	High Efficiency High Gain DC-DC Boost Converter Using PID Controller for Photovoltaic Applications. , 2021, , .		6
18	Design of High-Performance X-Band Monopulse Comparator for Active Phased Array Radar Applications. , 2021, , .		0

#	Article	IF	Citations
19	JPEG Image Compression Using Multiple Core Strategy in FPGA achieving High Peak Signal to Noise Ratios. , 2021, , .		1
20	An X-Band Coupled Lined Based Channel Failure Detection Mechanism For Active Phased Arrays. , 2021, , .		0
21	Hybrid Workload Enabled and Secure Healthcare Monitoring Sensing Framework in Distributed Fog-Cloud Network. Electronics (Switzerland), 2021, 10, 1974.	1.8	15
22	Editorial for the Special Issue on Security and Sensing Devices for Healthcare Technologies. Micromachines, 2021, 12, 1028.	1.4	0
23	Novel Ensemble Algorithm for Multiple Activity Recognition in Elderly People Exploiting Ubiquitous Sensing Devices. IEEE Sensors Journal, 2021, 21, 18214-18221.	2.4	15
24	Contactless Small-Scale Movement Monitoring System Using Software Defined Radio for Early Diagnosis of COVID-19. IEEE Sensors Journal, 2021, 21, 17180-17188.	2.4	33
25	Discrete Human Activity Recognition and Fall Detection by Combining FMCW RADAR Data of Heterogeneous Environments for Independent Assistive Living. Electronics (Switzerland), 2021, 10, 2237.	1.8	32
26	Wireless Channel Modelling for Identifying Six Types of Respiratory Patterns With SDR Sensing and Deep Multilayer Perceptron. IEEE Sensors Journal, 2021, 21, 20833-20840.	2.4	20
27	Portable UWB RADAR Sensing System for Transforming Subtle Chest Movement Into Actionable Micro-Doppler Signatures to Extract Respiratory Rate Exploiting ResNet Algorithm. IEEE Sensors Journal, 2021, 21, 23518-23526.	2.4	17
28	Clone detection in 5G-enabled social IoT system using graph semantics and deep learning model. International Journal of Machine Learning and Cybernetics, 2021, 12, 3115-3127.	2.3	19
29	Improving Machine Learning Classification Accuracy for Breathing Abnormalities by Enhancing Dataset. Sensors, 2021, 21, 6750.	2.1	16
30	Noninvasive Detection of Respiratory Disorder Due to COVID-19 at the Early Stages in Saudi Arabia. Electronics (Switzerland), 2021, 10, 2701.	1.8	4
31	AI-based Real-time Classification of Human Activity using Software Defined Radios. , 2021, , .		2
32	Seizure episodes detection via smart medical sensing system. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 4363-4375.	3.3	34
33	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	3.2	32
34	Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-Invasive Sensing. IEEE Sensors Journal, 2020, 20, 2075-2083.	2.4	57
35	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	2.1	64
36	Flexible and Scalable Software Defined Radio Based Testbed for Large Scale Body Movement. Electronics (Switzerland), 2020, 9, 1354.	1.8	9

#	Article	IF	Citations
37	High Performance Big Data Graph Analytics Leveraging Near Memory System. , 2020, , .		0
38	Identifying Elevated and Shallow Respiratory Rate using mmWave Radar leveraging Machine Learning Algorithms. , 2020, , .		4
39	Energy demand forecasting of buildings using random neural networks. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4753-4765.	0.8	4
40	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. Sensors, 2020, 20, 2653.	2.1	104
41	A Novel Secure Occupancy Monitoring Scheme Based on Multi-Chaos Mapping. Symmetry, 2020, 12, 350.	1.1	18
42	Sensor Fusion for Identification of Freezing of Gait Episodes Using Wi-Fi and Radar Imaging. IEEE Sensors Journal, 2020, 20, 14410-14422.	2.4	37
43	Impact of Relay Location of STANC Bi-Directional Transmission for Future Autonomous Internet of Things Applications. IEEE Access, 2020, 8, 29395-29406.	2.6	4
44	A Novel Hybrid Secure Image Encryption Based on Julia Set of Fractals and 3D Lorenz Chaotic Map. Entropy, 2020, 22, 274.	1.1	91
45	Chaosâ€based privacy preserving vehicle safety protocol for 5G Connected Autonomous Vehicle networks. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3966.	2.6	23
46	Privacy-Preserving Non-Wearable Occupancy Monitoring System Exploiting Wi-Fi Imaging for Next-Generation Body Centric Communication. Micromachines, 2020, 11, 379.	1.4	23
47	5G-FOG: Freezing of Gait Identification in Multi-class Softmax Neural Network Exploiting 5G Spectrum. Advances in Intelligent Systems and Computing, 2020, , 26-36.	0.5	3
48	Software Defined Radio Based Testbed for Large Scale Body Movements. , 2020, , .		4
49	S -Band Sensing-Based Motion Assessment Framework for Cerebellar Dysfunction Patients. IEEE Sensors Journal, 2019, 19, 8460-8467.	2.4	35
50	Radar for Health Care: Recognizing Human Activities and Monitoring Vital Signs. IEEE Potentials, 2019, 38, 16-23.	0.2	66
51	Cognitive health care system and its application in pillâ€rolling assessment. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2632.	1.2	37
52	Intrusion Detection through Leaky Wave Cable in Conjunction with Channel State Information. , 2019, , .		6
53	Design of Software Defined Radios Based Platform for Activity Recognition. IEEE Access, 2019, 7, 31083-31088.	2.6	32
54	An efficient monitoring of eclamptic seizures in wireless sensors networks. Computers and Electrical Engineering, 2019, 75, 16-30.	3.0	30

#	Article	IF	Citations
55	WiFreeze: Multiresolution Scalograms for Freezing of Gait Detection in Parkinsonâ€™s Leveraging 5G Spectrum with Deep Learning. Electronics (Switzerland), 2019, 8, 1433.	1.8	23
56	Radar sensing for healthcare. Electronics Letters, 2019, 55, 1022-1024.	0.5	57
57	Human Activity Recognition : Preliminary Results for Dataset Portability using FMCW Radar. , 2019, , .		38
58	RF Sensing Technologies for Assisted Daily Living in Healthcare: A Comprehensive Review. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 26-44.	2.3	108
59	Freezing of Gait Detection Considering Leaky Wave Cable. IEEE Transactions on Antennas and Propagation, 2019, 67, 554-561.	3.1	56
60	Monitoring of Patients Suffering From REM Sleep Behavior Disorder. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 138-143.	2.3	37
61	A Compact Beam-Scanning Leaky-Wave Antenna With Improved Performance. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 825-828.	2.4	24
62	Detection of Essential Tremor at the S -Band. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-7.	2.2	22
63	Wandering Pattern Sensing at S-Band. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1863-1870.	3.9	56
64	Chronic Obstructive Pulmonary Disease Warning in the Approximate Ward Environment. Applied Sciences (Switzerland), 2018, 8, 1915.	1.3	14
65	Breathing Rhythm Analysis in Body Centric Networks. IEEE Access, 2018, 6, 32507-32513.	2.6	30
66	Internet of Things for Sensing: A Case Study in the Healthcare System. Applied Sciences (Switzerland), 2018, 8, 508.	1.3	42
67	Respiration Symptoms Monitoring in Body Area Networks. Applied Sciences (Switzerland), 2018, 8, 568.	1.3	39
68	An Experimental Channel Capacity Analysis of Cooperative Networks Using Universal Software Radio Peripheral (USRP). Sustainability, 2018, 10, 1983.	1.6	26
69	Utilizing a 5G spectrum for health care to detect the tremors and breathing activity for multiple sclerosis. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3454.	2.6	31
70	Buried Object Sensing Considering Curved Pipeline. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2771-2775.	2.4	26
71	Monitoring of atopic dermatitis using leaky coaxial cable. Healthcare Technology Letters, 2017, 4, 244-248.	1.9	25
72	Posture Recognition to Prevent Bedsores for Multiple Patients Using Leaking Coaxial Cable. IEEE Access, 2016, 4, 8065-8072.	2.6	27