

Syed Aziz Shah

List of Publications by Year in descending order

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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	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
2	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. Sensors, 2020, 20, 2653.	2.1	104
3	A Novel Hybrid Secure Image Encryption Based on Julia Set of Fractals and 3D Lorenz Chaotic Map. Entropy, 2020, 22, 274.	1.1	91
4	Radar for Health Care: Recognizing Human Activities and Monitoring Vital Signs. IEEE Potentials, 2019, 38, 16-23.	0.2	66
5	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	2.1	64
6	Radar sensing for healthcare. Electronics Letters, 2019, 55, 1022-1024.	0.5	57
7	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
8	Wandering Pattern Sensing at S-Band. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1863-1870.	3.9	56
9	Freezing of Gait Detection Considering Leaky Wave Cable. IEEE Transactions on Antennas and Propagation, 2019, 67, 554-561.	3.1	56
10	Internet of Things for Sensing: A Case Study in the Healthcare System. Applied Sciences (Switzerland), 2018, 8, 508.	1.3	42
11	Respiration Symptoms Monitoring in Body Area Networks. Applied Sciences (Switzerland), 2018, 8, 568.	1.3	39
12	Human Activity Recognition : Preliminary Results for Dataset Portability using FMCW Radar. , 2019, , .		38
13	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
14	Cognitive health care system and its application in pill rolling assessment. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2632.	1.2	37
15	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
16	\$\$\$ -Band Sensing-Based Motion Assessment Framework for Cerebellar Dysfunction Patients. IEEE Sensors Journal, 2019, 19, 8460-8467.	2.4	35
17	Seizure episodes detection via smart medical sensing system. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 4363-4375.	3.3	34
18	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

#	ARTICLE	IF	CITATIONS
19	DBGC: Dimension-Based Generic Convolution Block for Object Recognition. <i>Sensors</i> , 2022, 22, 1780.	2.1	33
20	Design of Software Defined Radios Based Platform for Activity Recognition. <i>IEEE Access</i> , 2019, 7, 31083-31088.	2.6	32
21	Diagnosis of the Hypopnea syndrome in the early stage. <i>Neural Computing and Applications</i> , 2020, 32, 855-866.	3.2	32
22	Discrete Human Activity Recognition and Fall Detection by Combining FMCW RADAR Data of Heterogeneous Environments for Independent Assistive Living. <i>Electronics (Switzerland)</i> , 2021, 10, 2237.	1.8	32
23	Utilizing a 5G spectrum for health care to detect the tremors and breathing activity for multiple sclerosis. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018, 29, e3454.	2.6	31
24	Breathing Rhythm Analysis in Body Centric Networks. <i>IEEE Access</i> , 2018, 6, 32507-32513.	2.6	30
25	An efficient monitoring of eclamptic seizures in wireless sensors networks. <i>Computers and Electrical Engineering</i> , 2019, 75, 16-30.	3.0	30
26	Radar Sensing for Activity Classification in Elderly People Exploiting Micro-Doppler Signatures Using Machine Learning. <i>Sensors</i> , 2021, 21, 3881.	2.1	30
27	Machine learning empowered COVID-19 patient monitoring using non-contact sensing: An extensive review. <i>Journal of Pharmaceutical Analysis</i> , 2022, 12, 193-204.	2.4	30
28	Posture Recognition to Prevent Bedsores for Multiple Patients Using Leaking Coaxial Cable. <i>IEEE Access</i> , 2016, 4, 8065-8072.	2.6	27
29	Buried Object Sensing Considering Curved Pipeline. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 2771-2775.	2.4	26
30	An Experimental Channel Capacity Analysis of Cooperative Networks Using Universal Software Radio Peripheral (USRP). <i>Sustainability</i> , 2018, 10, 1983.	1.6	26
31	Monitoring of atopic dermatitis using leaky coaxial cable. <i>Healthcare Technology Letters</i> , 2017, 4, 244-248.	1.9	25
32	A Compact Beam-Scanning Leaky-Wave Antenna With Improved Performance. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 825-828.	2.4	24
33	WiFreeze: Multiresolution Scalograms for Freezing of Gait Detection in Parkinson's Leveraging 5G Spectrum with Deep Learning. <i>Electronics (Switzerland)</i> , 2019, 8, 1433.	1.8	23
34	Chaos-based privacy preserving vehicle safety protocol for 5G Connected Autonomous Vehicle networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020, 31, e3966.	2.6	23
35	Privacy-Preserving Non-Wearable Occupancy Monitoring System Exploiting Wi-Fi Imaging for Next-Generation Body Centric Communication. <i>Micromachines</i> , 2020, 11, 379.	1.4	23
36	Privacy-Preserving Wandering Behavior Sensing in Dementia Patients Using Modified Logistic and Dynamic Newton Leibnik Maps. <i>IEEE Sensors Journal</i> , 2021, 21, 3669-3679.	2.4	23

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37	Detection of Essential Tremor at the \$\$\$ -Band. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-7.	2.2	22
38	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
39	Non-Invasive RF Sensing for Detecting Breathing Abnormalities Using Software Defined Radios. IEEE Sensors Journal, 2021, 21, 5111-5118.	2.4	19
40	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
41	A Novel Secure Occupancy Monitoring Scheme Based on Multi-Chaos Mapping. Symmetry, 2020, 12, 350.	1.1	18
42	RF Sensing Based Breathing Patterns Detection Leveraging USRP Devices. Sensors, 2021, 21, 3855.	2.1	18
43	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
44	Improving Machine Learning Classification Accuracy for Breathing Abnormalities by Enhancing Dataset. Sensors, 2021, 21, 6750.	2.1	16
45	Hybrid Workload Enabled and Secure Healthcare Monitoring Sensing Framework in Distributed Fog-Cloud Network. Electronics (Switzerland), 2021, 10, 1974.	1.8	15
46	Novel Ensemble Algorithm for Multiple Activity Recognition in Elderly People Exploiting Ubiquitous Sensing Devices. IEEE Sensors Journal, 2021, 21, 18214-18221.	2.4	15
47	Chronic Obstructive Pulmonary Disease Warning in the Approximate Ward Environment. Applied Sciences (Switzerland), 2018, 8, 1915.	1.3	14
48	Wireless on Walls: Revolutionizing the future of health care. IEEE Antennas and Propagation Magazine, 2021, 63, 87-93.	1.2	12
49	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
50	Multiple Participantsâ€™ Discrete Activity Recognition in a Well-Controlled Environment Using Universal Software Radio Peripheral Wireless Sensing. Sensors, 2022, 22, 809.	2.1	10
51	Novel Privacy Preserving Non-Invasive Sensing-Based Diagnoses of Pneumonia Disease Leveraging Deep Network Model. Sensors, 2022, 22, 461.	2.1	10
52	Flexible and Scalable Software Defined Radio Based Testbed for Large Scale Body Movement. Electronics (Switzerland), 2020, 9, 1354.	1.8	9
53	Granular Data Access Control with a Patient-Centric Policy Update for Healthcare. Sensors, 2021, 21, 3556.	2.1	8
54	Personalized wearable electrodermal sensing-based human skin hydration level detection for sports, health and wellbeing. Scientific Reports, 2022, 12, 3715.	1.6	8

#	ARTICLE	IF	CITATIONS
55	Intrusion Detection through Leaky Wave Cable in Conjunction with Channel State Information. , 2019, , .		6
56	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
57	High Efficiency High Gain DC-DC Boost Converter Using PID Controller for Photovoltaic Applications. , 2021, , .		6
58	IoT Based Fall Detection System for Elderly Healthcare. Studies in Computational Intelligence, 2022, , 209-232.	0.7	6
59	Identifying Elevated and Shallow Respiratory Rate using mmWave Radar leveraging Machine Learning Algorithms. , 2020, , .		4
60	Energy demand forecasting of buildings using random neural networks. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4753-4765.	0.8	4
61	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
62	Noninvasive Detection of Respiratory Disorder Due to COVID-19 at the Early Stages in Saudi Arabia. Electronics (Switzerland), 2021, 10, 2701.	1.8	4
63	Software Defined Radio Based Testbed for Large Scale Body Movements. , 2020, , .		4
64	Design and Evaluation of a Button Sensor Antenna for On-Body Monitoring Activity in Healthcare Applications. Micromachines, 2022, 13, 475.	1.4	4
65	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
66	Antenna Installation and Location Qualification Aircraft using Computational Electromagnetic Tools. , 2021, , .		2
67	AI-based Real-time Classification of Human Activity using Software Defined Radios. , 2021, , .		2
68	JPEG Image Compression Using Multiple Core Strategy in FPGA achieving High Peak Signal to Noise Ratios. , 2021, , .		1
69	High Performance Big Data Graph Analytics Leveraging Near Memory System. , 2020, , .		0
70	Design of High-Performance X-Band Monopulse Comparator for Active Phased Array Radar Applications. , 2021, , .		0
71	An X-Band Coupled Lined Based Channel Failure Detection Mechanism For Active Phased Arrays. , 2021, , .		0
72	Editorial for the Special Issue on Security and Sensing Devices for Healthcare Technologies. Micromachines, 2021, 12, 1028.	1.4	0