Zainul Abdin Jaffery

List of Publications by Year
in descending order

71 papers	1,006 citations	623734 14 h-index	477307 29 g-index
74 all docs	74 docs citations	74 times ranked	849 citing authors

#	Article	IF	Citations
1	Maximization of wireless sensor network lifetime using solar energy harvesting for smart agriculture monitoring. Ad Hoc Networks, 2019, 94, 101966.	5.5	144
2	Improvement of signal-to-noise ratio in digital holography using wavelet transform. Optics and Lasers in Engineering, 2008, 46, 42-47.	3.8	90
3	Fault diagnosis of Photovoltaic Modules. Energy Science and Engineering, 2019, 7, 622-644.	4.0	89
4	Solar energy harvesting wireless sensor network nodes: A survey. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	87
5	Scheme for predictive fault diagnosis in photo-voltaic modules using thermal imaging. Infrared Physics and Technology, 2017, 83, 182-187.	2.9	72
6	Design of early fault detection technique for electrical assets using infrared thermograms. International Journal of Electrical Power and Energy Systems, 2014, 63, 753-759.	5.5	58
7	Modeling and Optimisation of a Solar Energy Harvesting System for Wireless Sensor Network Nodes. Journal of Sensor and Actuator Networks, 2018, 7, 40.	3.9	51
8	An Efficient Solar Energy Harvesting System for Wireless Sensor Nodes. , 2018, , .		40
9	Design of thermal imaging-based health condition monitoring and early fault detection technique for porcelain insulators using Machine learning. Environmental Technology and Innovation, 2021, 24, 102000.	6.1	32
10	Maximally Stable Extremal Region Marking-Based Railway Track Surface Defect Sensing. IEEE Sensors Journal, 2016, 16, 9047-9052.	4.7	29
11	Indian Traffic Sign Detection and Recognition. International Journal of Intelligent Transportation Systems Research, 2020, 18, 98-112.	1.1	27
12	Bag of feature and support vector machine based early diagnosis of skin cancer. Neural Computing and Applications, 2022, 34, 8385-8392.	5.6	21
13	Segmentation and Characterization of Brain Tumor from MR Images. , 2009, , .		20
14	Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. IEEE Sensors Journal, 2013, 13, 1236-1244.	4.7	20
15	Temperature measurement of solar module in outdoor operating conditions using thermal imaging. Infrared Physics and Technology, 2018, 92, 134-138.	2.9	17
16	Scope and Prospects of Non-Invasive Visual Inspection Systems for Industrial Applications. Indian Journal of Science and Technology, 2016, 9, .	0.7	16
17	Low power FIR filter implementation on FPGA using parallel Distributed Arithmetic. , 2015, , .		15
18	Design Analysis of Inductorless Active Loaded Low Power UWB LNA Using Noise Cancellation Technique. Frequenz, 2020, 74, 137-144.	0.9	11

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19	Distance-based confidence generation and aggregation of classifier for unstructured road detection. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 8727-8738.	3.9	11
20	Advances of Broadband Power Line Communication and its application. , 2015, , .		10
21	Performance Analysis of Solar Powered DC-DC Buck Converter for Energy Harvesting IoT Nodes. , 2018, , .		9
22	A comparative study of fourteen deep learning networks for multi skin lesion classification (MSLC) on unbalanced data. Neural Computing and Applications, 2023, 35, 7989-8015.	5.6	9
23	Techno-economic feasibility of HVDS concept for distribution feeder power loss minimisation. , 2012, , .		8
24	Computerized detection of breast cancer in digital mammograms. International Journal of Computers and Applications, 2018, 40, 98-109.	1.3	8
25	Real Time Visual Inspection System(RTVIS) for calibration of mechanical gauges. , 2011, , .		7
26	Performance comparison of image segmentation techniques for Infrared images. , 2015, , .		7
27	Computer-aided diagnosis of breast cancer in digital mammograms. International Journal of Biomedical Engineering and Technology, 2018, 27, 233.	0.2	7
28	Bid responsive generation rescheduling for congestion management in electricity market. Engineering Reports, 2021, 3, e12331.	1.7	7
29	Transfer Learning-Based Novel Fault Classification Technique for Grid-Connected PV Inverter. Lecture Notes in Electrical Engineering, 2021, , 217-224.	0.4	7
30	A cost-effective computer vision-based vehicle detection system. Concurrent Engineering Research and Applications, 2022, 30, 148-158.	3.2	7
31	Computerised segmentation of suspicious lesions in the digital mammograms. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 77-86.	1.9	6
32	Analysis of multimodal biometrie recognition using Iris and sclera. , 2017, , .		5
33	A comprehensive study on channel modeling of broadband communication over low voltage power line. , 2018, , .		5
34	Hybrid technique for the detection of suspicious lesions in digital mammograms. International Journal of Biomedical Engineering and Technology, 2017, 24, 184.	0.2	4
35	Segmentation and Characterization of Breast Tumor in Mammograms. , 2010, , .		3
36	Performance Measure Based Segmentation Techniques for Skin Cancer Detection. Communications in Computer and Information Science, 2018, , 226-233.	0.5	3

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37	Classifiers for the Detection of Skin Cancer. Smart Innovation, Systems and Technologies, 2018, , 351-360.	0.6	3
38	Performance Analysis of Broadband Power Line Channel for different Topologies. , 2019, , .		3
39	Design & Analysis of PWM & MPPT Power Converters for Energy Harvesting IoT Nodes. , 2019, , .		3
40	Thermography Based Real Time Intelligent Condition Monitoring System for Solar Power Inverter. , 2019, , .		3
41	Performance Comparision of Wavelet Threshold Estimators for ECG Signal Denoising. , 2010, , .		2
42	ANFIS based equalizer for non-linear time varying channels. , 2015, , .		2
43	Detection of missing nuts & bolts on rail fishplate. , 2017, , .		2
44	Performance comparison of segmentation techniques for detection of defect in rail head surface images. , 2017, , .		2
45	Decision Tree Classifier Based Pedestrian Detection for Autonomous Land Vehicle Development. , 2019, , .		2
46	A Vision-Based System for Traffic Light Detection. Advances in Intelligent Systems and Computing, 2019, , 333-343.	0.6	2
47	Architecture of an effective convolutional deep neural network for segmentation of skin lesion in dermoscopic images. Expert Systems, 0, , e12689.	4.5	2
48	Design of Dmey Wavelet Gaussian Filter (DWGF) for De-noising of Skin Lesion Images. Advances in Intelligent Systems and Computing, 2019, , 475-484.	0.6	2
49	A Novel Framework for Smart Agriculture using Internet of Things and Enabling Technologies. , 2022, , .		2
50	Reduction of speckle noise in digital holographic images using wavelet transform. Proceedings of SPIE, 2008, , .	0.8	1
51	Simulation of single phase RMS controlled Voltage Source Inverter (VSI) for variation in Cdc, C<inf>s</inf> and R<inf>s</inf>. , 2010, , .		1
52	A computer vision system for detection and avoidance for automotive vehicles. , 2015, , .		1
53	Parallel-prefix modulo adders: A Review. , 2017, , .		1
54	Comparative study and Investigation of the Broadband Powerline Channel Model. , 2018, , .		1

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55	Jigsaw electrode design for electrowetting devices. Micro and Nano Letters, 2019, 14, 1046-1051.	1.3	1
56	Low Bitrate Image Coding based on Dual Tree Complex Wavelet Transform. , 2019, , .		1
57	Research Issues in Energy Harvesting Internet of Things. , 2019, , .		1
58	Study of threshold voltage for different electrode shapes in electrowetting device. Materials Research Express, 2019, 6, 046414.	1.6	1
59	Weighted neuro-fuzzy hybrid algorithm for channel equalisation in time varying channel. International Journal of Business Intelligence and Data Mining, 2020, 17, 237.	0.2	1
60	Computer-aided diagnosis of breast cancer in digital mammograms. International Journal of Biomedical Engineering and Technology, 2018, 27, 233.	0.2	1
61	Optimization of Hopfield Neural Network for improved pattern recall and storage using Lyapunov Energy Function and Hamming Distance. International Journal of Fuzzy System Applications, 2022, 11, 0-0.	0.7	1
62	Nearest Neighbor Classifier for Vision Based Unstructured Road Detection. , 2019, , .		0
63	Categorical vehicle classification using Deep Neural Networks. , 2019, , .		0
64	Categorical Vehicle Classification and Tracking using Deep Neural Networks. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.7	0
65	Quality Assessment of Soft-Switching Based Single-phase Pulse Width Modulated Voltage Source Inverter (PWM VSI). International Journal of Power Electronics and Drive Systems, 2012, 2, .	0.6	0
66	Hybrid technique for the detection of suspicious lesions in digital mammograms. International Journal of Biomedical Engineering and Technology, 2017, 24, 184.	0.2	0
67	Weighted Neuro-Fuzzy Hybrid Algorithm for Channel Equalization in Time Varying Channel. International Journal of Business Intelligence and Data Mining, 2019, 1, 1.	0.2	0
68	Broadband Power-Line Communication in Self-Reliant Microgrid Distribution Network-an Overview. Advances in Intelligent Systems and Computing, 2020, , 215-224.	0.6	0
69	A Vision based Indian Traffic Sign Classification. International Journal of Recent Technology and Engineering, 2020, 8, 3132-3141.	0.2	0
70	An Effective Skin Disease Segmentation Model Based on Deep Convolutional Neural Network. International Journal of Intelligent Information Technologies, 2022, 18, 1-18.	0.8	0
71	Drone-Based Crop Product Quality Monitoring System: An Application of Smart Agriculture. Advanced Series in Management, 2022, 27, 97-110.	1.2	0