

Zainul Abdin Jaffery

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,006
citations

623574

14
h-index

477173

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. <i>Ad Hoc Networks</i> , 2019, 94, 101966.	3.4	144
2	Improvement of signal-to-noise ratio in digital holography using wavelet transform. <i>Optics and Lasers in Engineering</i> , 2008, 46, 42-47.	2.0	90
3	Fault diagnosis of Photovoltaic Modules. <i>Energy Science and Engineering</i> , 2019, 7, 622-644.	1.9	89
4	Solar energy harvesting wireless sensor network nodes: A survey. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	87
5	Scheme for predictive fault diagnosis in photo-voltaic modules using thermal imaging. <i>Infrared Physics and Technology</i> , 2017, 83, 182-187.	1.3	72
6	Design of early fault detection technique for electrical assets using infrared thermograms. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 63, 753-759.	3.3	58
7	Modeling and Optimisation of a Solar Energy Harvesting System for Wireless Sensor Network Nodes. <i>Journal of Sensor and Actuator Networks</i> , 2018, 7, 40.	2.3	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. <i>Environmental Technology and Innovation</i> , 2021, 24, 102000.	3.0	32
10	Maximally Stable Extremal Region Marking-Based Railway Track Surface Defect Sensing. <i>IEEE Sensors Journal</i> , 2016, 16, 9047-9052.	2.4	29
11	Indian Traffic Sign Detection and Recognition. <i>International Journal of Intelligent Transportation Systems Research</i> , 2020, 18, 98-112.	0.6	27
12	Bag of feature and support vector machine based early diagnosis of skin cancer. <i>Neural Computing and Applications</i> , 2022, 34, 8385-8392.	3.2	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. <i>IEEE Sensors Journal</i> , 2013, 13, 1236-1244.	2.4	20
15	Temperature measurement of solar module in outdoor operating conditions using thermal imaging. <i>Infrared Physics and Technology</i> , 2018, 92, 134-138.	1.3	17
16	Scope and Prospects of Non-Invasive Visual Inspection Systems for Industrial Applications. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	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. <i>Frequenz</i> , 2020, 74, 137-144.	0.6	11

#	ARTICLE	IF	CITATIONS
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.	2.7	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.	3.2	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.	0.8	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.	0.9	7
29	Transfer Learning-Based Novel Fault Classification Technique for Grid-Connected PV Inverter. Lecture Notes in Electrical Engineering, 2021, , 217-224.	0.3	7
30	A cost-effective computer vision-based vehicle detection system. Concurrent Engineering Research and Applications, 2022, 30, 148-158.	2.0	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.	1.3	6
32	Analysis of multimodal biometric 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.	0.4	3

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37	Classifiers for the Detection of Skin Cancer. Smart Innovation, Systems and Technologies, 2018, , 351-360.	0.5	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.	0.5	2
47	Architecture of an effective convolutional deep neural network for segmentation of skin lesion in dermoscopic images. Expert Systems, 0, , e12689.	2.9	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.	0.5	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$\frac{1}{s}$ and R$\frac{1}{s}$. , 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. <i>Micro and Nano Letters</i> , 2019, 14, 1046-1051.	0.6	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. <i>Materials Research Express</i> , 2019, 6, 046414.	0.8	1
59	Weighted neuro-fuzzy hybrid algorithm for channel equalisation in time varying channel. <i>International Journal of Business Intelligence and Data Mining</i> , 2020, 17, 237.	0.2	1
60	Computer-aided diagnosis of breast cancer in digital mammograms. <i>International Journal of Biomedical Engineering and Technology</i> , 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. <i>International Journal of Fuzzy System Applications</i> , 2022, 11, 0-0.	0.5	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. <i>International Journal of Advanced Computer Science and Applications</i> , 2021, 12, .	0.5	0
65	Quality Assessment of Soft-Switching Based Single-phase Pulse Width Modulated Voltage Source Inverter (PWM VSI). <i>International Journal of Power Electronics and Drive Systems</i> , 2012, 2, .	0.5	0
66	Hybrid technique for the detection of suspicious lesions in digital mammograms. <i>International Journal of Biomedical Engineering and Technology</i> , 2017, 24, 184.	0.2	0
67	Weighted Neuro-Fuzzy Hybrid Algorithm for Channel Equalization in Time Varying Channel. <i>International Journal of Business Intelligence and Data Mining</i> , 2019, 1, 1.	0.2	0
68	Broadband Power-Line Communication in Self-Reliant Microgrid Distribution Network-an Overview. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 215-224.	0.5	0
69	A Vision based Indian Traffic Sign Classification. <i>International Journal of Recent Technology and Engineering</i> , 2020, 8, 3132-3141.	0.2	0
70	An Effective Skin Disease Segmentation Model Based on Deep Convolutional Neural Network. <i>International Journal of Intelligent Information Technologies</i> , 2022, 18, 1-18.	0.5	0
71	Drone-Based Crop Product Quality Monitoring System: An Application of Smart Agriculture. <i>Advanced Series in Management</i> , 2022, 27, 97-110.	0.8	0