A S M Shihavuddin

List of Publications by Year
in descending order

50 papers	1,103 citations	623188 14 h-index	454577 30 g-index
51 all docs	51 docs citations	51 times ranked	1286 citing authors

#	Article	IF	Citations
1	Design and comparative analysis of memristor-based transistor-less combinational logic circuits. International Journal of Electronics, 2022, 109, 1291-1306.	0.9	8
2	Mitigation of mismatch power loss in aged photovoltaic arrays following a comparative investigation into module rearrangement techniques. Energy Reports, 2022, 8, 1896-1906.	2.5	8
3	A Comparative Analysis of Soft Switching Techniques in Reducing the Energy Loss and Improving the Soft Switching Range in Power Converters. Electronics (Switzerland), 2022, 11, 1062.	1.8	7
4	Electrical experimental data collection of polycrystalline and monocrystalline photovoltaic modules in an indoor environment using artificial sun simulator. Data in Brief, 2022, 43, 108389.	0.5	7
5	Cascaded DNNs for detecting the position and orientation of Left Ventricle from 3D CT Scans. , 2022, , .		0
6	DeepThin: A novel lightweight CNN architecture for traffic sign recognition without GPU requirements. Expert Systems With Applications, 2021, 168, 114481.	4.4	60
7	AQUADA: Automated quantification of damages in composite wind turbine blades for LCOE reduction. Wind Energy, 2021, 24, 535-548.	1.9	15
8	A Human-Cyber-Physical System toward Intelligent Wind Turbine Operation and Maintenance. Sustainability, 2021, 13, 561.	1.6	44
9	Sequential transfer learning based on hierarchical clustering for improved performance in deep learning based food segmentation. Scientific Reports, 2021, 11, 813.	1.6	9
10	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current. Electronics (Switzerland), 2021, 10, 1312.	1.8	5
11	A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters. Electronics (Switzerland), 2021, 10, 2226.	1.8	2
12	Image based surface damage detection of renewable energy installations using a unified deep learning approach. Energy Reports, 2021, 7, 4566-4576.	2.5	33
13	Exergy based evaluation of power plants for sustainability and economic performance identification. Case Studies in Thermal Engineering, 2021, 28, 101393.	2.8	12
14	Food Depth Estimation Using Low-Cost Mobile-Based System for Real-Time Dietary Assessment. GUB Journal of Science and Engineering, 2021, 6, 1-11.	0.4	1
15	Experimental Investigation of PV Array Interconnection Topologies at Nonuniform Aging Condition for Power Maximization. GUB Journal of Science and Engineering, 2021, 6, 39-45.	0.4	2
16	Cascaded 3-Stage Nuclei Segmentation Using U-net, Faster-RCNN and SegNet for Higher Precision. , 2021, , .		2
17	Reducing Levelized Cost of Energy Using Gas Generator in off-Grid Wind-PV Hybrid System. , 2021, , .		2
18	RiIG Modeled WCP Image-Based CNN Architecture and Feature-Based Approach in Breast Tumor Classification from B-Mode Ultrasound. Applied Sciences (Switzerland), 2021, 11, 12138.	1.3	5

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19	Greenotyper: Image-Based Plant Phenotyping Using Distributed Computing and Deep Learning. Frontiers in Plant Science, 2020, 11, 1181.	1.7	25
20	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation. Symmetry, 2020, 12, 1313.	1.1	1
21	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh. Energy Reports, 2020, 6, 2520-2530.	2.5	32
22	A Novel Family of Class EFnm and E/Fnm Inverter for Improved Efficiency. , 2020, , .		4
23	Parametric Image-based Breast Tumor Classification Using Convolutional Neural Network in the Contourlet Transform Domain. , 2020, , .		4
24	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator. , 2020, , .		8
25	Coral species identification with texture or structure images using a two-level classifier based on Convolutional Neural Networks. Knowledge-Based Systems, 2019, 184, 104891.	4.0	26
26	Wind Turbine Surface Damage Detection by Deep Learning Aided Drone Inspection Analysis. Energies, 2019, 12, 676.	1.6	120
27	Adult Neural Stem Cells and Multiciliated Ependymal Cells Share a Common Lineage Regulated by the Geminin Family Members. Neuron, 2019, 102, 159-172.e7.	3.8	90
28	Biometrics from Cellular Imaging. Series in Bioengineering, 2019, , 229-252.	0.3	0
29	Towards highly accurate coral texture images classification using deep convolutional neural networks and data augmentation. Expert Systems With Applications, 2019, 118, 315-328.	4.4	85
30	FastSME: Faster and Smoother Manifold Extraction from 3D Stack. , 2018, , .		10
31	Ependymal cilia beating induces an actin network to protect centrioles against shear stress. Nature Communications, 2018, 9, 2279.	5.8	66
32	mTORC1 signaling and primary cilia are required for brain ventricle morphogenesis. Development (Cambridge), 2017, 144, 201-210.	1.2	69
33	Smooth 2D manifold extraction from 3D image stack. Nature Communications, 2017, 8, 15554.	5.8	76
34	Calibrated mitotic oscillator drives motile ciliogenesis. Science, 2017, 358, 803-806.	6.0	75
35	Improved supervised classification of underwater military munitions using height features derived from optical imagery. , 2015, , .		0
36	Geostatistics for Context-Aware Image Classification. Lecture Notes in Computer Science, 2015, , 228-239.	1.0	7

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37	Automated Detection of Underwater Military Munitions Using Fusion of 2D and 2.5D Features From Optical Imagery. Marine Technology Society Journal, 2014, 48, 61-71.	0.3	7
38	Optical methods to monitor temporal changes at the seafloor: The Lucky Strike deep-sea hydrothermal vent field (Mid-Atlantic Ridge). , 2013, , .		3
39	Automated classification and thematic mapping of bacterial mats in the North Sea. , 2013, , .		11
40	Image-Based Coral Reef Classification and Thematic Mapping. Remote Sensing, 2013, 5, 1809-1841.	1.8	89
41	A study on local binary pattern for automated weed classification using template matching and support vector machine. , 2011, , .		15
42	Using catadioptric sensor to obtain image of the inner surface of a pipe and detection and analysis of faults by image processing. , 2011, , .		2
43	Compound local binary pattern (CLBP) for robust facial expression recognition. , 2011, , .		37
44	Low cost design of a PC based integrated system for signal measurement and generation using microcontroller. , 2010, , .		0
45	Prediction of stock price analyzing the online financial news using Naive Bayes classifier and local economic trends. , 2010, , .		8
46	A comparative analysis between the Step Index fiber and Polarization Maintaining fiber on the basis of their modal solutions. , 2010, , .		0
47	A new SS7-SIGTRAN protocol interchanger software and hardware to implement an improved distributed database based ATM network using existing IP network. , 2008, , .		0
48	A new SS7-SIGTRAN protocol interchanger software operated with modified USB E1 for nationwide IP backbone - Necessity for BTCL PSTN. , 2008, , .		0
49	Towards Autonomous Robot Operation: Path Map Generation of an Unknown Area by a New Trapezoidal Approximation Method Using a Self Guided Vehicle and Shortest Path Calculation by a Proposed SRS Algorithm. Lecture Notes in Computer Science, 2008, , 593-602.	1.0	1
50	Statistical Model Based Breast Tumor Classification in Contourlet Transform Domain. GUB Journal of Science and Engineering, 0, , 21-26.	0.4	0