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	Wind Turbine Surface Damage Detection by Deep Learning Aided Drone Inspection Analysis. Energies, 2019, 12, 676.	1.6	120
2	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
3	Image-Based Coral Reef Classification and Thematic Mapping. Remote Sensing, 2013, 5, 1809-1841.	1.8	89
4	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
5	Smooth 2D manifold extraction from 3D image stack. Nature Communications, 2017, 8, 15554.	5.8	76
6	Calibrated mitotic oscillator drives motile ciliogenesis. Science, 2017, 358, 803-806.	6.0	75
7	mTORC1 signaling and primary cilia are required for brain ventricle morphogenesis. Development (Cambridge), 2017, 144, 201-210.	1.2	69
8	Ependymal cilia beating induces an actin network to protect centrioles against shear stress. Nature Communications, 2018, 9, 2279.	5.8	66
9	DeepThin: A novel lightweight CNN architecture for traffic sign recognition without GPU requirements. Expert Systems With Applications, 2021, 168, 114481.	4.4	60
10	A Human-Cyber-Physical System toward Intelligent Wind Turbine Operation and Maintenance. Sustainability, 2021, 13, 561.	1.6	44
11	Compound local binary pattern (CLBP) for robust facial expression recognition. , 2011, , .		37
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	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh. Energy Reports, 2020, 6, 2520-2530.	2.5	32
14	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
15	Greenotyper: Image-Based Plant Phenotyping Using Distributed Computing and Deep Learning. Frontiers in Plant Science, 2020, 11, 1181.	1.7	25
16	A study on local binary pattern for automated weed classification using template matching and support vector machine. , 2011, , .		15
17	AQUADA: Automated quantification of damages in composite wind turbine blades for LCOE reduction. Wind Energy, 2021, 24, 535-548.	1.9	15
18	Exergy based evaluation of power plants for sustainability and economic performance identification. Case Studies in Thermal Engineering, 2021, 28, 101393.	2.8	12

#	Article	IF	Citations
19	Automated classification and thematic mapping of bacterial mats in the North Sea. , 2013, , .		11
20	FastSME: Faster and Smoother Manifold Extraction from 3D Stack. , 2018, , .		10
21	Sequential transfer learning based on hierarchical clustering for improved performance in deep learning based food segmentation. Scientific Reports, 2021, 11, 813.	1.6	9
22	Prediction of stock price analyzing the online financial news using Naive Bayes classifier and local economic trends. , 2010, , .		8
23	Design and comparative analysis of memristor-based transistor-less combinational logic circuits. International Journal of Electronics, 2022, 109, 1291-1306.	0.9	8
24	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator. , 2020, , .		8
25	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
26	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
27	Geostatistics for Context-Aware Image Classification. Lecture Notes in Computer Science, 2015, , 228-239.	1.0	7
28	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
29	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
30	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
31	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
32	A Novel Family of Class EFnm and E/Fnm Inverter for Improved Efficiency. , 2020, , .		4
33	Parametric Image-based Breast Tumor Classification Using Convolutional Neural Network in the Contourlet Transform Domain. , 2020, , .		4
34	Optical methods to monitor temporal changes at the seafloor: The Lucky Strike deep-sea hydrothermal vent field (Mid-Atlantic Ridge). , 2013, , .		3
35	Using catadioptric sensor to obtain image of the inner surface of a pipe and detection and analysis of faults by image processing. , 2011, , .		2
36	A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters. Electronics (Switzerland), 2021, 10, 2226.	1.8	2

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37	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
38	Cascaded 3-Stage Nuclei Segmentation Using U-net, Faster-RCNN and SegNet for Higher Precision. , 2021, , .		2
39	Reducing Levelized Cost of Energy Using Gas Generator in off-Grid Wind-PV Hybrid System. , 2021, , .		2
40	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation. Symmetry, 2020, 12, 1313.	1.1	1
41	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
42	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
43	A new SS7-SIGTRAN protocol interchanger software and hardware to implement an improved distributed database based ATM network using existing IP network. , 2008, , .		0
44	A new SS7-SIGTRAN protocol interchanger software operated with modified USB E1 for nationwide IP backbone - Necessity for BTCL PSTN. , 2008, , .		0
45	Low cost design of a PC based integrated system for signal measurement and generation using microcontroller. , 2010, , .		0
46	A comparative analysis between the Step Index fiber and Polarization Maintaining fiber on the basis of their modal solutions. , 2010, , .		0
47	Improved supervised classification of underwater military munitions using height features derived from optical imagery. , 2015, , .		0
48	Biometrics from Cellular Imaging. Series in Bioengineering, 2019, , 229-252.	0.3	0
49	Statistical Model Based Breast Tumor Classification in Contourlet Transform Domain. GUB Journal of Science and Engineering, 0, , 21-26.	0.4	0
50	Cascaded DNNs for detecting the position and orientation of Left Ventricle from 3D CT Scans. , 2022, , .		0