

# Ferdous Sohel

## List of Publications by Year in descending order

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Version: 2024-02-01

165  
papers

6,262  
citations

172207

29  
h-index

95083

68  
g-index

168  
all docs

168  
docs citations

168  
times ranked

4900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Weed recognition using deep learning techniques on class-imbalanced imagery. Crop and Pasture Science, 2023, 74, 628-644.	0.7	11
2	Insect detection from imagery using YOLOv3-based adaptive feature fusion convolution network. Crop and Pasture Science, 2023, 74, 615-627.	0.7	15
3	Integrated generalized zero-shot learning for fine-grained classification. Pattern Recognition, 2022, 122, 108246.	5.1	14
4	Bidirectional Mapping Coupled GAN for Generalized Zero-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 721-733.	6.0	4
5	Automatic and fast classification of barley grains from images: A deep learning approach. Smart Agricultural Technology, 2022, 2, 100036.	3.1	4
6	A reinforcement learning-based approach for imputing missing data. Neural Computing and Applications, 2022, 34, 9701-9716.	3.2	9
7	Adversary Distillation for One-Shot Attacks on 3D Target Tracking. , 2022, , .		1
8	Machine learning-based detection of freezing events using infrared thermography. Computers and Electronics in Agriculture, 2022, 198, 107013.	3.7	8
9	Anomaly Detection in Operating System Logs with Deep Learning-Based Sentiment Analysis. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 2136-2148.	3.7	21
10	Adversarial Network With Multiple Classifiers for Open Set Domain Adaptation. IEEE Transactions on Multimedia, 2021, 23, 2732-2744.	5.2	42
11	Diffusion Geometry Derived Keypoints and Local Descriptors for 3D Deformable Shape Analysis. Journal of Circuits, Systems and Computers, 2021, 30, 2150016.	1.0	10
12	Atrous convolutional feature network for weakly supervised semantic segmentation. Neurocomputing, 2021, 421, 115-126.	3.5	21
13	CurveNet: Curvature-Based Multitask Learning Deep Networks for 3D Object Recognition. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1177-1187.	8.5	43
14	Modelling Mass Crowd Using Discrete Event Simulation: A Case Study of Integrated Tawaf and Sayee Rituals During Hajj. IEEE Access, 2021, 9, 79424-79448.	2.6	7
15	Robust Image Classification Using a Low-Pass Activation Function and DCT Augmentation. IEEE Access, 2021, 9, 86460-86474.	2.6	7
16	Text to Image Synthesis for Improved Image Captioning. IEEE Access, 2021, 9, 64918-64928.	2.6	25
17	A survey of deep learning techniques for weed detection from images. Computers and Electronics in Agriculture, 2021, 184, 106067.	3.7	202
18	PD-Net: Point Dropping Network for Flexible Adversarial Example Generation with $L_{0}$ Regularization. , 2021, , .		1

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19	Machine learning risk prediction model for acute coronary syndrome and death from use of non-steroidal anti-inflammatory drugs in administrative data. Scientific Reports, 2021, 11, 18314.	1.6	9
20	Imputation of missing data with class imbalance using conditional generative adversarial networks. Neurocomputing, 2021, 453, 164-171.	3.5	44
21	Progressive conditional GAN-based augmentation for 3D object recognition. Neurocomputing, 2021, 460, 20-30.	3.5	6
22	Real time surveillance for low resolution and limited data scenarios: An image set classification approach. Information Sciences, 2021, 580, 578-597.	4.0	6
23	Adversarial point cloud perturbations against 3D object detection in autonomous driving systems. Neurocomputing, 2021, 466, 27-36.	3.5	21
24	Anomaly detection in a forensic timeline with deep autoencoders. Journal of Information Security and Applications, 2021, 63, 103002.	1.8	7
25	Leveraging Auxiliary Tasks with Affinity Learning for Weakly Supervised Semantic Segmentation. , 2021, , .		62
26	Automatic Graph-Based Clustering for Security Logs. Advances in Intelligent Systems and Computing, 2020, , 914-926.	0.5	2
27	Multi-Task Learning for Acoustic Event Detection Using Event and Frame Position Information. IEEE Transactions on Multimedia, 2020, 22, 569-578.	5.2	14
28	Automatic detection of Western rock lobster using synthetic data. ICES Journal of Marine Science, 2020, 77, 1308-1317.	1.2	18
29	ResFeats: Residual network based features for underwater image classification. Image and Vision Computing, 2020, 93, 103811.	2.7	32
30	Learning Latent Global Network for Skeleton-Based Action Prediction. IEEE Transactions on Image Processing, 2020, 29, 959-970.	6.0	47
31	A High-Performance Spectral-Spatial Residual Network for Hyperspectral Image Classification with Small Training Data. Remote Sensing, 2020, 12, 3137.	1.8	13
32	Scale-Aware Feature Network for Weakly Supervised Semantic Segmentation. IEEE Access, 2020, 8, 75957-75967.	2.6	2
33	Performance Evaluation of Anomaly Detection in Imbalanced System Log Data. , 2020, , .		9
34	Deep Boltzmann machine for corrosion classification using eddy current pulsed thermography. Optik, 2020, 219, 164828.	1.4	5
35	Sentiment Analysis in a Forensic Timeline With Deep Learning. IEEE Access, 2020, 8, 60664-60675.	2.6	27
36	Sound Event Detection Using Multiple Optimized Kernels. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1745-1754.	4.0	5

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37	3D Object Classification Using a Volumetric Deep Neural Network: An Efficient Octree Guided Auxiliary Learning Approach. IEEE Access, 2020, 8, 23802-23816.	2.6	10
38	A review of the uses of virtual reality in engineering education. Computer Applications in Engineering Education, 2020, 28, 748-763.	2.2	54
39	Automatic Event Log Abstraction to Support Forensic Investigation. , 2020, , .		10
40	Automatic Hierarchical Classification of Kelps Using Deep Residual Features. Sensors, 2020, 20, 447.	2.1	32
41	RCNN for Region of Interest Detection in Whole Slide Images. Communications in Computer and Information Science, 2020, , 625-632.	0.4	2
42	WNet: Joint Multiple Head Detection and Head Pose Estimation from a Spectator Crowd Image. Lecture Notes in Computer Science, 2019, , 484-493.	1.0	3
43	Feature selection and transformation by machine learning reduce variable numbers and improve prediction for heart failure readmission or death. PLoS ONE, 2019, 14, e0218760.	1.1	35
44	Deep learning-based 3D local feature descriptor from Mercator projections. Computer Aided Geometric Design, 2019, 74, 101771.	0.5	5
45	Enhancing Semantic Word Representations by Embedding Deep Word Relationships. , 2019, , .		2
46	A Comprehensive Survey of Deep Learning for Image Captioning. ACM Computing Surveys, 2019, 51, 1-36.	16.1	440
47	Global Regularizer and Temporal-Aware Cross-Entropy for Skeleton-Based Early Action Recognition. Lecture Notes in Computer Science, 2019, , 729-745.	1.0	5
48	An Improved Approach to Weakly Supervised Semantic Segmentation. , 2019, , .		3
49	Deep Learning for Scene Understanding. Smart Innovation, Systems and Technologies, 2019, , 21-51.	0.5	5
50	Deep Learning for Marine Species Recognition. Smart Innovation, Systems and Technologies, 2019, , 129-145.	0.5	16
51	A survey on forensic investigation of operating system logs. Digital Investigation, 2019, 29, 1-20.	3.2	30
52	Machine learning-based prediction of heart failure readmission or death: implications of choosing the right model and the right metrics. ESC Heart Failure, 2019, 6, 428-435.	1.4	89
53	A Survey: Neural Network-Based Deep Learning for Acoustic Event Detection. Circuits, Systems, and Signal Processing, 2019, 38, 3433-3453.	1.2	21
54	Bi-SAN-CAP: Bi-Directional Self-Attention for Image Captioning. , 2019, , .		8

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55	Deep Fusion Net for Coral Classification in Fluorescence and Reflectance Images. , 2019, , .		2
56	Language Modeling through Long-Term Memory Network. , 2019, , .		10
57	Improving Follicular Lymphoma Identification using the Class of Interest for Transfer Learning. , 2019, , .		6
58	Coral Classification Using DenseNet and Cross-modality Transfer Learning. , 2019, , .		2
59	Auxiliary Classifier Generative Adversarial Network With Soft Labels in Imbalanced Acoustic Event Detection. IEEE Transactions on Multimedia, 2019, 21, 1359-1371.	5.2	30
60	NormalNet: A voxel-based CNN for 3D object classification and retrieval. Neurocomputing, 2019, 323, 139-147.	3.5	90
61	Deep Image Representations for Coral Image Classification. IEEE Journal of Oceanic Engineering, 2019, 44, 121-131.	2.1	48
62	Enhanced Transfer Learning with ImageNet Trained Classification Layer. Lecture Notes in Computer Science, 2019, , 142-155.	1.0	15
63	Direct Image to Point Cloud Descriptors Matching for 6-DOF Camera Localization in Dense 3D Point Clouds. Lecture Notes in Computer Science, 2019, , 222-234.	1.0	3
64	MON: Multiple Output Neurons. Communications in Computer and Information Science, 2019, , 432-439.	0.4	1
65	Review of Modelling and Simulating Crowds at Mass Gathering Events: Hajj as a Case Study. Jasss, 2019, 22, .	1.0	20
66	Attention-Based Image Captioning Using DenseNet Features. Communications in Computer and Information Science, 2019, , 109-117.	0.4	3
67	Learning-Based Confidence Estimation for Multi-modal Classifier Fusion. Lecture Notes in Computer Science, 2019, , 299-312.	1.0	2
68	Body Detection in Spectator Crowd Images Using Partial Heads. Lecture Notes in Computer Science, 2019, , 65-77.	1.0	0
69	Leveraging Structural Context Models and Ranking Score Fusion for Human Interaction Prediction. IEEE Transactions on Multimedia, 2018, 20, 1712-1723.	5.2	33
70	Random forest classification based acoustic event detection utilizing contextual-information and bottleneck features. Pattern Recognition, 2018, 81, 1-13.	5.1	37
71	Learning Clip Representations for Skeleton-Based 3D Action Recognition. IEEE Transactions on Image Processing, 2018, 27, 2842-2855.	6.0	185
72	Cost-Sensitive Learning of Deep Feature Representations From Imbalanced Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3573-3587.	7.2	382

#	ARTICLE	IF	CITATIONS
73	A Multi-Modal, Discriminative and Spatially Invariant CNN for RGB-D Object Labeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2051-2065.	9.7	40
74	Machine learning in heart failure. Current Opinion in Cardiology, 2018, 33, 190-195.	0.8	71
75	Acoustic Scene Classification Using Joint Time-Frequency Image-Based Feature Representations. , 2018, , .		2
76	Confidence Based Acoustic Event Detection. , 2018, , .		8
77	Generalized Joint Sparse Representation for Multimodal Biometric Fusion of Heterogeneous Features. , 2018, , .		3
78	Local Binary Pattern with Random Forest for Acoustic Scene Classification. , 2018, , .		7
79	Classification of Corals in Reflectance and Fluorescence Images Using Convolutional Neural Network Representations. , 2018, , .		4
80	Identity Adaptation for Person Re-Identification. IEEE Access, 2018, 6, 48147-48155.	2.6	5
81	Computer Vision for Human-Machine Interaction. , 2018, , 127-145.		46
82	Exploiting layerwise convexity of rectifier networks with sign constrained weights. Neural Networks, 2018, 105, 419-430.	3.3	0
83	Spectrotemporal Analysis Using Local Binary Pattern Variants for Acoustic Scene Classification. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 2112-2121.	4.0	31
84	RGB-D Object Recognition and Grasp Detection Using Hierarchical Cascaded Forests. IEEE Transactions on Robotics, 2017, 33, 547-564.	7.3	105
85	Discriminative feature learning and region consistency activation for robust scene labeling. Neurocomputing, 2017, 243, 174-186.	3.5	0
86	Graph clustering and anomaly detection of access control log for forensic purposes. Digital Investigation, 2017, 21, 76-87.	3.2	26
87	Scale space clustering evolution for salient region detection on 3D deformable shapes. Pattern Recognition, 2017, 71, 414-427.	5.1	24
88	SkeletonNet: Mining Deep Part Features for 3-D Action Recognition. IEEE Signal Processing Letters, 2017, 24, 731-735.	2.1	134
89	Efficient Image Set Classification Using Linear Regression Based Image Reconstruction. , 2017, , .		25
90	Multi-level Search of a Knowledgebase for Semantic Parsing. Lecture Notes in Computer Science, 2017, , 44-53.	1.0	1

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91	Enhanced LBP texture features from time frequency representations for acoustic scene classification. , 2017, , .		6
92	A usability evaluation of Neuromender's upper limb game-based rehabilitation system for stroke survivors. , 2017, , .		4
93	A Joint Deep Boltzmann Machine (jDBM) Model for Person Identification Using Mobile Phone Data. IEEE Transactions on Multimedia, 2017, 19, 317-326.	5.2	23
94	A New Representation of Skeleton Sequences for 3D Action Recognition. , 2017, , .		564
95	Random forest regression based acoustic event detection with bottleneck features. , 2017, , .		8
96	NSCTâ€based fusion method for forwardâ€looking sonar image mosaic. IET Radar, Sonar and Navigation, 2017, 11, 1512-1522.	0.9	7
97	Resfeats: Residual network based features for image classification. , 2017, , .		31
98	Random forest classification based acoustic event detection. , 2017, , .		13
99	Deep Learning for Coral Classification. , 2017, , 383-401.		30
100	Reinforced Memory Network for Question Answering. Lecture Notes in Computer Science, 2017, , 482-490.	1.0	10
101	Learning deep structured network for weakly supervised change detection. , 2017, , .		22
102	Persistence-based Interest Point Detection for 3D Deformable Surface. , 2017, , .		1
103	Simultaneous dense scene reconstruction and object labeling. , 2016, , .		5
104	Audio-visual biometric recognition via joint sparse representations. , 2016, , .		3
105	Coral classification with hybrid feature representations. , 2016, , .		52
106	Forward-looking sonar image registration using polar transform. , 2016, , .		2
107	Automatic annotation of coral reefs using deep learning. , 2016, , .		40
108	A Discriminative Representation of Convolutional Features for Indoor Scene Recognition. IEEE Transactions on Image Processing, 2016, 25, 3372-3383.	6.0	79

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109	Unsupervised segmentation of unknown objects in complex environments. Autonomous Robots, 2016, 40, 805-829.	3.2	12
110	EI3D: Expression-invariant 3D face recognition based on feature and shape matching. Pattern Recognition Letters, 2016, 83, 403-412.	2.6	33
111	Heat propagation contours for 3D non-rigid shape analysis. , 2016, , .		2
112	Binary Descriptor Based on Heat Diffusion for Non-rigid Shape Analysis. Lecture Notes in Computer Science, 2016, , 751-761.	1.0	0
113	Integrating Geometrical Context for Semantic Labeling of Indoor Scenes using RGBD Images. International Journal of Computer Vision, 2016, 117, 1-20.	10.9	21
114	Automatic Shadow Detection and Removal from a Single Image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 431-446.	9.7	181
115	A Comprehensive Performance Evaluation of 3D Local Feature Descriptors. International Journal of Computer Vision, 2016, 116, 66-89.	10.9	418
116	Human Interaction Prediction Using Deep Temporal Features. Lecture Notes in Computer Science, 2016, , 403-414.	1.0	31
117	Outdoor scene labelling with learned features and region consistency activation. , 2015, , .		2
118	Heterogeneous Multi-column ConvNets with a Fusion Framework for Object Recognition. , 2015, , .		2
119	A deep neural network for audio-visual person recognition. , 2015, , .		6
120	Contractive Rectifier Networks for Nonlinear Maximum Margin Classification. , 2015, , .		6
121	Separating objects and clutter in indoor scenes. , 2015, , .		12
122	Discriminative feature learning for efficient RGB-D object recognition. , 2015, , .		7
123	An Integrated Framework for 3-D Modeling, Object Detection, and Pose Estimation From Point-Clouds. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 683-693.	2.4	66
124	Efficient RGB-D object categorization using cascaded ensembles of randomized decision trees. , 2015, , .		22
125	A confidence-based late fusion framework for audio-visual biometric identification. Pattern Recognition Letters, 2015, 52, 65-71.	2.6	22
126	A novel local surface feature for 3D object recognition under clutter and occlusion. Information Sciences, 2015, 293, 196-213.	4.0	99



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127	Performance Evaluation of 3D Local Feature Descriptors. Lecture Notes in Computer Science, 2015, , 178-194.	1.0	4
128	A model-free approach for the segmentation of unknown objects. , 2014, , .		6
129	Automatic Feature Learning for Robust Shadow Detection. , 2014, , .		93
130	Quantitative Error Analysis of Bilateral Filtering. IEEE Signal Processing Letters, 2014, , 1-1.	2.1	3
131	An Accurate and Robust Range Image Registration Algorithm for 3D Object Modeling. IEEE Transactions on Multimedia, 2014, 16, 1377-1390.	5.2	125
132	3D Object Recognition in Cluttered Scenes with Local Surface Features: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2270-2287.	9.7	483
133	Geometry Driven Semantic Labeling of Indoor Scenes. Lecture Notes in Computer Science, 2014, , 679-694.	1.0	32
134	Model-Free Segmentation and Grasp Selection of Unknown Stacked Objects. Lecture Notes in Computer Science, 2014, , 659-674.	1.0	7
135	Rotational Projection Statistics for 3D Local Surface Description and Object Recognition. International Journal of Computer Vision, 2013, 105, 63-86.	10.9	503
136	A low cost 3D markerless system for the reconstruction of athletic techniques. , 2013, , .		7
137	3D free form object recognition using rotational projection statistics. , 2013, , .		23
138	RoPS: A local feature descriptor for 3D rigid objects based on rotational projection statistics. , 2013, , .		14
139	Integrating shape and color cues for textured 3D object recognition. , 2013, , .		3
140	Linear Regression-based Classifier for audio visual person identification. , 2013, , .		10
141	Real-time pose estimation of rigid objects using RGB-D imagery. , 2013, , .		13
142	An efficient reliability estimation technique for audio-visual person identification. , 2013, , .		5
143	Sliding-Window Designs for Vertex-Based Shape Coding. IEEE Transactions on Multimedia, 2012, 14, 683-692.	5.2	7
144	Robust pose invariant shape-based hand recognition. , 2011, , .		9

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145	Spatial shape error concealment utilising image texture. , 2011, , .		0
146	Geometric distortion measurement for shape coding. ACM Computing Surveys, 2011, 43, 1-22.	16.1	6
147	Bezier curve-based generic shape encoder. IET Image Processing, 2010, 4, 92.	1.4	10
148	Image Dependent Spatial Shape Error Concealment for Multiple Shapes. , 2009, , .		1
149	Dynamic Bezier curves for variable rate-distortion. Pattern Recognition, 2008, 41, 3153-3165.	5.1	1
150	Quasi-Bezier curves integrating localised information. Pattern Recognition, 2008, 41, 531-542.	5.1	6
151	Image-dependent spatial shape-error concealment. , 2008, , .		3
152	Distortion measurement using arc-length-parameterisation within a vertex-based shape coding framework. , 2008, , .		2
153	New Dynamic Enhancements to the Vertex-Based Rate-Distortion Optimal Shape Coding Framework. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1408-1413.	5.6	13
154	Fast Distortion Measurement Using Chord-Length Parameterization Within the Vertex-Based Rate-Distortion Optimal Shape Coding Framework. IEEE Signal Processing Letters, 2007, 14, 121-124.	2.1	10
155	Bezier Curve-Based Character Descriptor Considering Shape Information. , 2007, , .		2
156	Accurate distortion measurement for generic shape coding. Pattern Recognition Letters, 2006, 27, 133-142.	2.6	18
157	Dynamic Sliding Window Width Selection Strategies for Rate-Distortion Optimal Vertex-Based Shape Coding Algorithms. , 2006, , .		1
158	Variable Width Admissible Control Point Band for Vertex Based Operational-Rate-Distortion Optimal Shape Coding Algorithms. , 2006, , .		5
159	A dynamic Bezier curve model. , 2005, , .		7
160	A Novel Half-Way Shifting Bezier Curve Model. , 2005, , .		3
161	An Improved Shape Descriptor Using Bezier Curves. Lecture Notes in Computer Science, 2005, , 401-406.	1.0	3
162	Enhanced Bezier Curve Models Incorporating Local Information. , 0, , .		4

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163	Frame-Wise Dynamic Threshold Based Polyphonic Acoustic Event Detection. , 0, , .		8
164	Consumer Perceptions in the Adoption of the Electronic Health Records in Australia: A Pilot Study. , 0, , .		2
165	Video Coding for Mobile Communications. , 0, , 109-150.		0