

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 | A New Representation of Skeleton Sequences for 3D Action Recognition. , 2017, , . | | 564 |
| 2 | Rotational Projection Statistics for 3D Local Surface Description and Object Recognition. International Journal of Computer Vision, 2013, 105, 63-86. | 10.9 | 503 |
| 3 | 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 |
| 4 | A Comprehensive Survey of Deep Learning for Image Captioning. ACM Computing Surveys, 2019, 51, 1-36. | 16.1 | 440 |
| 5 | A Comprehensive Performance Evaluation of 3D Local Feature Descriptors. International Journal of Computer Vision, 2016, 116, 66-89. | 10.9 | 418 |
| 6 | 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 |
| 7 | A survey of deep learning techniques for weed detection from images. Computers and Electronics in Agriculture, 2021, 184, 106067. | 3.7 | 202 |
| 8 | Learning Clip Representations for Skeleton-Based 3D Action Recognition. IEEE Transactions on Image Processing, 2018, 27, 2842-2855. | 6.0 | 185 |
| 9 | Automatic Shadow Detection and Removal from a Single Image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 431-446. | 9.7 | 181 |
| 10 | SkeletonNet: Mining Deep Part Features for 3-D Action Recognition. IEEE Signal Processing Letters, 2017, 24, 731-735. | 2.1 | 134 |
| 11 | An Accurate and Robust Range Image Registration Algorithm for 3D Object Modeling. IEEE Transactions on Multimedia, 2014, 16, 1377-1390. | 5.2 | 125 |
| 12 | RGB-D Object Recognition and Grasp Detection Using Hierarchical Cascaded Forests. IEEE Transactions on Robotics, 2017, 33, 547-564. | 7.3 | 105 |
| 13 | A novel local surface feature for 3D object recognition under clutter and occlusion. Information Sciences, 2015, 293, 196-213. | 4.0 | 99 |
| 14 | Automatic Feature Learning for Robust Shadow Detection. , 2014, , . | | 93 |
| 15 | NormalNet: A voxel-based CNN for 3D object classification and retrieval. Neurocomputing, 2019, 323, 139-147. | 3.5 | 90 |
| 16 | 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 |
| 17 | A Discriminative Representation of Convolutional Features for Indoor Scene Recognition. IEEE Transactions on Image Processing, 2016, 25, 3372-3383. | 6.0 | 79 |
| 18 | Machine learning in heart failure. Current Opinion in Cardiology, 2018, 33, 190-195. | 0.8 | 71 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Leveraging Auxiliary Tasks with Affinity Learning for Weakly Supervised Semantic Segmentation. , 2021, , , | | 62 |
| 21 | A review of the uses of virtual reality in engineering education. Computer Applications in Engineering Education, 2020, 28, 748-763. | 2.2 | 54 |
| 22 | Coral classification with hybrid feature representations. , 2016, , . | | 52 |
| 23 | Deep Image Representations for Coral Image Classification. IEEE Journal of Oceanic Engineering, 2019, 44, 121-131. | 2.1 | 48 |
| 24 | Learning Latent Global Network for Skeleton-Based Action Prediction. IEEE Transactions on Image Processing, 2020, 29, 959-970. | 6.0 | 47 |
| 25 | Computer Vision for Humanâ€“Machine Interaction. , 2018, , 127-145. | | 46 |
| 26 | Imputation of missing data with class imbalance using conditional generative adversarial networks. Neurocomputing, 2021, 453, 164-171. | 3.5 | 44 |
| 27 | CurveNet: Curvature-Based Multitask Learning Deep Networks for 3D Object Recognition. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1177-1187. | 8.5 | 43 |
| 28 | Adversarial Network With Multiple Classifiers for Open Set Domain Adaptation. IEEE Transactions on Multimedia, 2021, 23, 2732-2744. | 5.2 | 42 |
| 29 | Automatic annotation of coral reefs using deep learning. , 2016, , . | | 40 |
| 30 | 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 |
| 31 | Random forest classification based acoustic event detection utilizing contextual-information and bottleneck features. Pattern Recognition, 2018, 81, 1-13. | 5.1 | 37 |
| 32 | 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 |
| 33 | EI3D: Expression-invariant 3D face recognition based on feature and shape matching. Pattern Recognition Letters, 2016, 83, 403-412. | 2.6 | 33 |
| 34 | Leveraging Structural Context Models and Ranking Score Fusion for Human Interaction Prediction. IEEE Transactions on Multimedia, 2018, 20, 1712-1723. | 5.2 | 33 |
| 35 | ResFeats: Residual network based features for underwater image classification. Image and Vision Computing, 2020, 93, 103811. | 2.7 | 32 |
| 36 | Geometry Driven Semantic Labeling of Indoor Scenes. Lecture Notes in Computer Science, 2014, , 679-694. | 1.0 | 32 |

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| 37 | Automatic Hierarchical Classification of Kelps Using Deep Residual Features. Sensors, 2020, 20, 447. | 2.1 | 32 |
| 38 | Resfeats: Residual network based features for image classification. , 2017, , . | | 31 |
| 39 | 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 |
| 40 | Human Interaction Prediction Using Deep Temporal Features. Lecture Notes in Computer Science, 2016, , 403-414. | 1.0 | 31 |
| 41 | Deep Learning for Coral Classification. , 2017, , 383-401. | | 30 |
| 42 | A survey on forensic investigation of operating system logs. Digital Investigation, 2019, 29, 1-20. | 3.2 | 30 |
| 43 | Auxiliary Classifier Generative Adversarial Network With Soft Labels in Imbalanced Acoustic Event Detection. IEEE Transactions on Multimedia, 2019, 21, 1359-1371. | 5.2 | 30 |
| 44 | Sentiment Analysis in a Forensic Timeline With Deep Learning. IEEE Access, 2020, 8, 60664-60675. | 2.6 | 27 |
| 45 | Graph clustering and anomaly detection of access control log for forensic purposes. Digital Investigation, 2017, 21, 76-87. | 3.2 | 26 |
| 46 | Efficient Image Set Classification Using Linear Regression Based Image Reconstruction. , 2017, , . | | 25 |
| 47 | Text to Image Synthesis for Improved Image Captioning. IEEE Access, 2021, 9, 64918-64928. | 2.6 | 25 |
| 48 | Scale space clustering evolution for salient region detection on 3D deformable shapes. Pattern Recognition, 2017, 71, 414-427. | 5.1 | 24 |
| 49 | 3D free form object recognition using rotational projection statistics. , 2013, , . | | 23 |
| 50 | 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 |
| 51 | Efficient RGB-D object categorization using cascaded ensembles of randomized decision trees. , 2015, , . | | 22 |
| 52 | A confidence-based late fusion framework for audio-visual biometric identification. Pattern Recognition Letters, 2015, 52, 65-71. | 2.6 | 22 |
| 53 | Learning deep structured network for weakly supervised change detection. , 2017, , . | | 22 |
| 54 | Integrating Geometrical Context for Semantic Labeling of Indoor Scenes using RGBD Images. International Journal of Computer Vision, 2016, 117, 1-20. | 10.9 | 21 |

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|----|---|-----|-----------|
| 55 | A Survey: Neural Network-Based Deep Learning for Acoustic Event Detection. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 3433-3453. | 1.2 | 21 |
| 56 | Anomaly Detection in Operating System Logs with Deep Learning-Based Sentiment Analysis. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021, 18, 2136-2148. | 3.7 | 21 |
| 57 | Atrous convolutional feature network for weakly supervised semantic segmentation. <i>Neurocomputing</i> , 2021, 421, 115-126. | 3.5 | 21 |
| 58 | Adversarial point cloud perturbations against 3D object detection in autonomous driving systems. <i>Neurocomputing</i> , 2021, 466, 27-36. | 3.5 | 21 |
| 59 | Review of Modelling and Simulating Crowds at Mass Gathering Events: Hajj as a Case Study. <i>Jasss</i> , 2019, 22, . | 1.0 | 20 |
| 60 | Accurate distortion measurement for generic shape coding. <i>Pattern Recognition Letters</i> , 2006, 27, 133-142. | 2.6 | 18 |
| 61 | Automatic detection of Western rock lobster using synthetic data. <i>ICES Journal of Marine Science</i> , 2020, 77, 1308-1317. | 1.2 | 18 |
| 62 | Deep Learning for Marine Species Recognition. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 129-145. | 0.5 | 16 |
| 63 | Enhanced Transfer Learning with ImageNet Trained Classification Layer. <i>Lecture Notes in Computer Science</i> , 2019, , 142-155. | 1.0 | 15 |
| 64 | Insect detection from imagery using YOLOv3-based adaptive feature fusion convolution network. <i>Crop and Pasture Science</i> , 2023, 74, 615-627. | 0.7 | 15 |
| 65 | RoPS: A local feature descriptor for 3D rigid objects based on rotational projection statistics. , 2013, , . | | 14 |
| 66 | Multi-Task Learning for Acoustic Event Detection Using Event and Frame Position Information. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 569-578. | 5.2 | 14 |
| 67 | Integrated generalized zero-shot learning for fine-grained classification. <i>Pattern Recognition</i> , 2022, 122, 108246. | 5.1 | 14 |
| 68 | New Dynamic Enhancements to the Vertex-Based Rate-Distortion Optimal Shape Coding Framework. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2007, 17, 1408-1413. | 5.6 | 13 |
| 69 | Real-time pose estimation of rigid objects using RGB-D imagery. , 2013, , . | | 13 |
| 70 | Random forest classification based acoustic event detection. , 2017, , . | | 13 |
| 71 | A High-Performance Spectral-Spatial Residual Network for Hyperspectral Image Classification with Small Training Data. <i>Remote Sensing</i> , 2020, 12, 3137. | 1.8 | 13 |
| 72 | Separating objects and clutter in indoor scenes. , 2015, , . | | 12 |

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| 73 | Unsupervised segmentation of unknown objects in complex environments. Autonomous Robots, 2016, 40, 805-829. | 3.2 | 12 |
| 74 | Weed recognition using deep learning techniques on class-imbalanced imagery. Crop and Pasture Science, 2023, 74, 628-644. | 0.7 | 11 |
| 75 | 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 |
| 76 | Bezier curve-based generic shape encoder. IET Image Processing, 2010, 4, 92. | 1.4 | 10 |
| 77 | Linear Regression-based Classifier for audio visual person identification. , 2013, , . | | 10 |
| 78 | Language Modeling through Long-Term Memory Network. , 2019, , . | | 10 |
| 79 | 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 |
| 80 | Diffusion Geometry Derived Keypoints and Local Descriptors for 3D Deformable Shape Analysis. Journal of Circuits, Systems and Computers, 2021, 30, 2150016. | 1.0 | 10 |
| 81 | Reinforced Memory Network for Question Answering. Lecture Notes in Computer Science, 2017, , 482-490. | 1.0 | 10 |
| 82 | Automatic Event Log Abstraction to Support Forensic Investigation. , 2020, , . | | 10 |
| 83 | Robust pose invariant shape-based hand recognition. , 2011, , . | | 9 |
| 84 | Performance Evaluation of Anomaly Detection in Imbalanced System Log Data. , 2020, , . | | 9 |
| 85 | 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 |
| 86 | A reinforcement learning-based approach for imputing missing data. Neural Computing and Applications, 2022, 34, 9701-9716. | 3.2 | 9 |
| 87 | Random forest regression based acoustic event detection with bottleneck features. , 2017, , . | | 8 |
| 88 | Confidence Based Acoustic Event Detection. , 2018, , . | | 8 |
| 89 | Bi-SAN-CAP: Bi-Directional Self-Attention for Image Captioning. , 2019, , . | | 8 |
| 90 | Frame-Wise Dynamic Threshold Based Polyphonic Acoustic Event Detection. , 0, , . | | 8 |

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| 91 | Machine learning-based detection of freezing events using infrared thermography. Computers and Electronics in Agriculture, 2022, 198, 107013. | 3.7 | 8 |
| 92 | A dynamic Bezier curve model. , 2005, , . | | 7 |
| 93 | Sliding-Window Designs for Vertex-Based Shape Coding. IEEE Transactions on Multimedia, 2012, 14, 683-692. | 5.2 | 7 |
| 94 | A low cost 3D markerless system for the reconstruction of athletic techniques. , 2013, , . | | 7 |
| 95 | Discriminative feature learning for efficient RGB-D object recognition. , 2015, , . | | 7 |
| 96 | NSCTâ€based fusion method for forwardâ€looking sonar image mosaic. IET Radar, Sonar and Navigation, 2017, 11, 1512-1522. | 0.9 | 7 |
| 97 | Local Binary Pattern with Random Forest for Acoustic Scene Classification. , 2018, , . | | 7 |
| 98 | 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 |
| 99 | Robust Image Classification Using a Low-Pass Activation Function and DCT Augmentation. IEEE Access, 2021, 9, 86460-86474. | 2.6 | 7 |
| 100 | Model-Free Segmentation and Grasp Selection of Unknown Stacked Objects. Lecture Notes in Computer Science, 2014, , 659-674. | 1.0 | 7 |
| 101 | Anomaly detection in a forensic timeline with deep autoencoders. Journal of Information Security and Applications, 2021, 63, 103002. | 1.8 | 7 |
| 102 | Quasi-Bezier curves integrating localised information. Pattern Recognition, 2008, 41, 531-542. | 5.1 | 6 |
| 103 | Geometric distortion measurement for shape coding. ACM Computing Surveys, 2011, 43, 1-22. | 16.1 | 6 |
| 104 | A model-free approach for the segmentation of unknown objects. , 2014, , . | | 6 |
| 105 | A deep neural network for audio-visual person recognition. , 2015, , . | | 6 |
| 106 | Contractive Rectifier Networks for Nonlinear Maximum Margin Classification. , 2015, , . | | 6 |
| 107 | Enhanced LBP texture features from time frequency representations for acoustic scene classification. , 2017, , . | | 6 |
| 108 | Improving Follicular Lymphoma Identification using the Class of Interest for Transfer Learning. , 2019, , . | | 6 |

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| 109 | Progressive conditional GAN-based augmentation for 3D object recognition. Neurocomputing, 2021, 460, 20-30. | 3.5 | 6 |
| 110 | Real time surveillance for low resolution and limited data scenarios: An image set classification approach. Information Sciences, 2021, 580, 578-597. | 4.0 | 6 |
| 111 | Variable Width Admissible Control Point Band for Vertex Based Operational-Rate-Distortion Optimal Shape Coding Algorithms. , 2006, , . | | 5 |
| 112 | An efficient reliability estimation technique for audio-visual person identification. , 2013, , . | | 5 |
| 113 | Simultaneous dense scene reconstruction and object labeling. , 2016, , . | | 5 |
| 114 | Identity Adaptation for Person Re-Identification. IEEE Access, 2018, 6, 48147-48155. | 2.6 | 5 |
| 115 | Deep learning-based 3D local feature descriptor from Mercator projections. Computer Aided Geometric Design, 2019, 74, 101771. | 0.5 | 5 |
| 116 | Global Regularizer and Temporal-Aware Cross-Entropy for Skeleton-Based Early Action Recognition. Lecture Notes in Computer Science, 2019, , 729-745. | 1.0 | 5 |
| 117 | Deep Learning for Scene Understanding. Smart Innovation, Systems and Technologies, 2019, , 21-51. | 0.5 | 5 |
| 118 | Deep Boltzmann machine for corrosion classification using eddy current pulsed thermography. Optik, 2020, 219, 164828. | 1.4 | 5 |
| 119 | Sound Event Detection Using Multiple Optimized Kernels. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1745-1754. | 4.0 | 5 |
| 120 | Enhanced Bezier Curve Models Incorporating Local Information. , 0, , . | | 4 |
| 121 | A usability evaluation of Neuromender's upper limb game-based rehabilitation system for stroke survivors. , 2017, , . | | 4 |
| 122 | Classification of Corals in Reflectance and Fluorescence Images Using Convolutional Neural Network Representations. , 2018, , . | | 4 |
| 123 | Performance Evaluation of 3D Local Feature Descriptors. Lecture Notes in Computer Science, 2015, , 178-194. | 1.0 | 4 |
| 124 | Bidirectional Mapping Coupled GAN for Generalized Zero-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 721-733. | 6.0 | 4 |
| 125 | Automatic and fast classification of barley grains from images: A deep learning approach. Smart Agricultural Technology, 2022, 2, 100036. | 3.1 | 4 |
| 126 | A Novel Half-Way Shifting Bezier Curve Model. , 2005, , . | | 3 |

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| 127 | Image-dependent spatial shape-error concealment. , 2008, , . | | 3 |
| 128 | Integrating shape and color cues for textured 3D object recognition. , 2013, , . | | 3 |
| 129 | Quantitative Error Analysis of Bilateral Filtering. IEEE Signal Processing Letters, 2014, , 1-1. | 2.1 | 3 |
| 130 | Audio-visual biometric recognition via joint sparse representations. , 2016, , . | | 3 |
| 131 | Generalized Joint Sparse Representation for Multimodal Biometric Fusion of Heterogeneous Features. , 2018, , . | | 3 |
| 132 | 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 |
| 133 | An Improved Approach to Weakly Supervised Semantic Segmentation. , 2019, , . | | 3 |
| 134 | An Improved Shape Descriptor Using Bezier Curves. Lecture Notes in Computer Science, 2005, , 401-406. | 1.0 | 3 |
| 135 | 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 |
| 136 | Attention-Based Image Captioning Using DenseNet Features. Communications in Computer and Information Science, 2019, , 109-117. | 0.4 | 3 |
| 137 | Bezier Curve-Based Character Descriptor Considering Shape Information. , 2007, , . | | 2 |
| 138 | Distortion measurement using arc-length-parameterisation within a vertex-based shape coding framework. , 2008, , . | | 2 |
| 139 | Outdoor scene labelling with learned features and region consistency activation. , 2015, , . | | 2 |
| 140 | Heterogeneous Multi-column ConvNets with a Fusion Framework for Object Recognition. , 2015, , . | | 2 |
| 141 | Forward-looking sonar image registration using polar transform. , 2016, , . | | 2 |
| 142 | Heat propagation contours for 3D non-rigid shape analysis. , 2016, , . | | 2 |
| 143 | Acoustic Scene Classification Using Joint Time-Frequency Image-Based Feature Representations. , 2018, , . | | 2 |
| 144 | Enhancing Semantic Word Representations by Embedding Deep Word Relationships. , 2019, , . | | 2 |

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| 145 | Deep Fusion Net for Coral Classification in Fluorescence and Reflectance Images. , 2019, , . | | 2 |
| 146 | Coral Classification Using DenseNet and Cross-modality Transfer Learning. , 2019, , . | | 2 |
| 147 | Automatic Graph-Based Clustering for Security Logs. Advances in Intelligent Systems and Computing, 2020, , 914-926. | 0.5 | 2 |
| 148 | Scale-Aware Feature Network for Weakly Supervised Semantic Segmentation. IEEE Access, 2020, 8, 75957-75967. | 2.6 | 2 |
| 149 | Consumer Perceptions in the Adoption of the Electronic Health Records in Australia: A Pilot Study. , 0, , . | | 2 |
| 150 | Learning-Based Confidence Estimation for Multi-modal Classifier Fusion. Lecture Notes in Computer Science, 2019, , 299-312. | 1.0 | 2 |
| 151 | RCNN for Region of Interest Detection in Whole Slide Images. Communications in Computer and Information Science, 2020, , 625-632. | 0.4 | 2 |
| 152 | Dynamic Sliding Window Width Selection Strategies for Rate-Distortion Optimal Vertex-Based Shape Coding Algorithms. , 2006, , . | | 1 |
| 153 | Dynamic Bezier curves for variable rate-distortion. Pattern Recognition, 2008, 41, 3153-3165. | 5.1 | 1 |
| 154 | Image Dependent Spatial Shape Error Concealment for Multiple Shapes. , 2009, , . | | 1 |
| 155 | Multi-level Search of a Knowledgebase for Semantic Parsing. Lecture Notes in Computer Science, 2017, , 44-53. | 1.0 | 1 |
| 156 | PD-Net: Point Dropping Network for Flexible Adversarial Example Generation with L_{0} Regularization. , 2021, , . | | 1 |
| 157 | MON: Multiple Output Neurons. Communications in Computer and Information Science, 2019, , 432-439. | 0.4 | 1 |
| 158 | Persistence-based Interest Point Detection for 3D Deformable Surface. , 2017, , . | | 1 |
| 159 | Adversary Distillation for One-Shot Attacks on 3D Target Tracking. , 2022, , . | | 1 |
| 160 | Spatial shape error concealment utilising image texture. , 2011, , . | | 0 |
| 161 | Binary Descriptor Based on Heat Diffusion for Non-rigid Shape Analysis. Lecture Notes in Computer Science, 2016, , 751-761. | 1.0 | 0 |
| 162 | Discriminative feature learning and region consistency activation for robust scene labeling. Neurocomputing, 2017, 243, 174-186. | 3.5 | 0 |

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| 163 | Exploiting layerwise convexity of rectifier networks with sign constrained weights. Neural Networks, 2018, 105, 419-430. | 3.3 | 0 |
| 164 | Body Detection in Spectator Crowd Images Using Partial Heads. Lecture Notes in Computer Science, 2019, , 65-77. | 1.0 | 0 |
| 165 | Video Coding for Mobile Communications. , 0, , 109-150. | | 0 |