

# Xiaobo Lu

## List of Publications by Year in descending order

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88  
papers

1,345  
citations

394421

19  
h-index

434195

31  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1106  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | An efficient network for multi-scale and overlapped wildlife detection. Signal, Image and Video Processing, 2023, 17, 343-351.  | 2.7  | 6         |
| 2  | Pose-guided model for driving behavior recognition using keypoint action learning. Signal Processing: Image Communication, 2022, 100, 116513.                                     | 3.2  | 8         |
| 3  | EFFNet: Enhanced Feature Foreground Network for Video Smoke Source Prediction and Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1820-1833. | 8.3  | 18        |
| 4  | STCNet: spatiotemporal cross network for industrial smoke detection. Multimedia Tools and Applications, 2022, 81, 10261-10277.  | 3.9  | 11        |
| 5  | QuasiVSD: efficient dual-frame smoke detection. Neural Computing and Applications, 2022, 34, 8539-8550.   | 5.6  | 3         |
| 6  | Pro-UIGAN: Progressive Face Hallucination From Occluded Thumbnails. IEEE Transactions on Image Processing, 2022, 31, 3236-3250.   | 9.8  | 4         |
| 7  | A pose-aware dynamic weighting model using feature integration for driver action recognition. Engineering Applications of Artificial Intelligence, 2022, 113, 104918.             | 8.1  | 4         |
| 8  | Face illumination recovery for the deep learning feature under severe illumination variations. Pattern Recognition, 2021, 111, 107724.  | 8.1  | 15        |
| 9  | D3D: Dual 3-D Convolutional Network for Real-Time Action Recognition. IEEE Transactions on Industrial Informatics, 2021, 17, 4584-4593.   | 11.3 | 15        |
| 10 | Recursive Copy and Paste GAN: Face Hallucination from Shaded Thumbnails. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.                           | 13.9 | 11        |
| 11 | Face Hallucination With Finishing Touches. IEEE Transactions on Image Processing, 2021, 30, 1728-1743.  | 9.8  | 20        |
| 12 | Global2Salient: Self-adaptive feature aggregation for remote sensing smoke detection. Neurocomputing, 2021, 466, 202-220.   | 5.9  | 12        |
| 13 | FIN-GAN: Face illumination normalization via retinex-based self-supervised learning and conditional generative adversarial network. Neurocomputing, 2021, 456, 109-125.           | 5.9  | 9         |
| 14 | Video-based driver action recognition via hybrid spatial-temporal deep learning framework. Multimedia Systems, 2021, 27, 483-501.   | 4.7  | 8         |
| 15 | Patchwise dictionary learning for video forest fire smoke detection in wavelet domain. Neural Computing and Applications, 2021, 33, 7965-7977.                                    | 5.6  | 11        |
| 16 | Multi Scale Attention Network for Crowd Counting. , 2021, , .   |      | 2         |
| 17 | Smoky Vehicle Detection Based on Improved Vision Transformer. , 2021, , .   |      | 3         |
| 18 | An Improved Faster R-CNN for Railway Fastening System Detection. , 2021, , .  |      | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A Two-step Model for Multi-object Tracking. , 2021, , .   |     | 0         |
| 20 | A Semi-Supervised Railway Foreign Object Detection Method Based on GAN. , 2021, , .   |     | 2         |
| 21 | Effective Indoor Fire Detection with Channel Shuffle Module. , 2021, , .  |     | 0         |
| 22 | Smoke vehicle detection based on multi-feature fusion and hidden Markov model. Journal of Real-Time Image Processing, 2020, 17, 745-758.  | 3.5 | 15        |
| 23 | SCRM: self-correlated representation model for visual tracking. Soft Computing, 2020, 24, 2187-2199.  | 3.6 | 1         |
| 24 | Smoke Vehicle Detection Based on Spatiotemporal Bag-Of-Features and Professional Convolutional Neural Network. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3301-3316. | 8.3 | 12        |
| 25 | A motion and lightness saliency approach for forest smoke segmentation and detection. Multimedia Tools and Applications, 2020, 79, 69-88.   | 3.9 | 12        |
| 26 | Mask-Aware Networks for Crowd Counting. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3119-3129.  | 8.3 | 23        |
| 27 | Toward Driver Face Recognition in the Intelligent Traffic Monitoring Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4958-4971.   | 8.0 | 20        |
| 28 | Driver action recognition using deformable and dilated faster R-CNN with optimized region proposals. Applied Intelligence, 2020, 50, 1100-1111.   | 5.3 | 50        |
| 29 | Feature refinement for image-based driver action recognition via multi-scale attention convolutional neural network. Signal Processing: Image Communication, 2020, 81, 115697.                      | 3.2 | 23        |
| 30 | Driver Drowsiness Recognition via 3D Conditional GAN and Two-Level Attention Bi-LSTM. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4755-4768.                          | 8.3 | 18        |
| 31 | Copy and Paste GAN: Face Hallucination From Shaded Thumbnails. , 2020, , .  |     | 23        |
| 32 | A three-stage framework for smoky vehicle detection in traffic surveillance videos. Information Sciences, 2020, 522, 17-34.   | 6.9 | 8         |
| 33 | Diagonal Symmetric Pattern-Based Illumination Invariant Measure for Severe Illumination Variation Face Recognition. IEEE Access, 2020, 8, 63202-63213.  | 4.2 | 7         |
| 34 | Diagonal Symmetric Pattern Based Illumination Invariant Measure for Severe Illumination Variations. Lecture Notes in Computer Science, 2020, , 29-40.   | 1.3 | 0         |
| 35 | Contour-based smoky vehicle detection from surveillance video for alarm systems. Signal, Image and Video Processing, 2019, 13, 217-225.   | 2.7 | 10        |
| 36 | Learning spatial-temporal representation for smoke vehicle detection. Multimedia Tools and Applications, 2019, 78, 27871-27889.   | 3.9 | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | An Attention Enhanced Bidirectional LSTM for Early Forest Fire Smoke Recognition. IEEE Access, 2019, 7, 154732-154742.   | 4.2 | 74        |
| 38 | General logarithm difference model for severe illumination variation face recognition. Multimedia Tools and Applications, 2019, 78, 27425-27447.                                   | 3.9 | 1         |
| 39 | Video smoke separation and detection via sparse representation. Neurocomputing, 2019, 360, 61-74.  | 5.9 | 10        |
| 40 | Face detection and alignment method for driver on highroad based on improved multi-task cascaded convolutional networks. Multimedia Tools and Applications, 2019, 78, 26661-26679. | 3.9 | 8         |
| 41 | Smoke vehicle detection based on robust codebook model and robust volume local binary count patterns. Image and Vision Computing, 2019, 86, 17-27.                                 | 4.5 | 9         |
| 42 | Automatic smoky vehicle detection from traffic surveillance video based on vehicle rear detection and multi-features fusion. IET Intelligent Transport Systems, 2019, 13, 252-259. | 3.0 | 18        |
| 43 | IL-GAN: Illumination-invariant representation learning for single sample face recognition. Journal of Visual Communication and Image Representation, 2019, 59, 501-513.            | 2.8 | 25        |
| 44 | An Attention Convolutional Neural Network for Forest Fire Smoke Recognition. , 2019, , .   |     | 2         |
| 45 | A Driver Fatigue Recognition Algorithm Based on Spatio-Temporal Feature Sequence. , 2019, , .  |     | 2         |
| 46 | A Convolutional Neural Network for Real-Time Vehicle Detection Under the Unmanned Aerial Vehicle Platform. , 2019, , .   |     | 0         |
| 47 | Smoky Vehicle Detection Algorithm Based On Improved Transfer Learning. , 2019, , .   |     | 3         |
| 48 | Adaptive pixel-block based background subtraction using low-rank and block-sparse matrix decomposition. Multimedia Tools and Applications, 2019, 78, 16507-16526.                  | 3.9 | 3         |
| 49 | Single Sample Face Recognition Under Varying Illumination via QRCP Decomposition. IEEE Transactions on Image Processing, 2019, 28, 2624-2638.                                      | 9.8 | 23        |
| 50 | Single-sample face recognition under varying lighting conditions based on logarithmic total variation. Signal, Image and Video Processing, 2019, 13, 657-665.                      | 2.7 | 3         |
| 51 | Fast Single-Image Super-Resolution via Deep Network With Component Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3473-3486.                  | 8.3 | 30        |
| 52 | Driving behaviour recognition from still images by using multi-stream fusion CNN. Machine Vision and Applications, 2019, 30, 851-865.  | 2.7 | 48        |
| 53 | Real-time video fire smoke detection by utilizing spatial-temporal ConvNet features. Multimedia Tools and Applications, 2018, 77, 29283-29301.                                     | 3.9 | 49        |
| 54 | Optimal Type-2 Fuzzy System For Arterial Traffic Signal Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3009-3027.                                     | 8.0 | 42        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Smoky vehicle detection based on multi-scale block Tamura features. Signal, Image and Video Processing, 2018, 12, 1061-1068.  | 2.7 | 18        |
| 56 | Face recognition under varying illumination based on singular value decomposition and retina modeling. Multimedia Tools and Applications, 2018, 77, 28355-28374.                | 3.9 | 7         |
| 57 | WeSamBE: A Weight-Sample-Based Method for Background Subtraction. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2105-2115.                          | 8.3 | 121       |
| 58 | Bidirectionally aligned sparse representation for single image super-resolution. Multimedia Tools and Applications, 2018, 77, 7883-7907.  | 3.9 | 4         |
| 59 | On Comparing Six Optimization Algorithms for Network-based Wind Speed Forecasting. , 2018, , .  |     | 8         |
| 60 | A Local Adaptive Structure Sparse Representation Algorithm for Image Reconstruction. , 2018, , .  |     | 0         |
| 61 | A Video Based Fire Smoke Detection Using Robust AdaBoost. Sensors, 2018, 18, 3780.  | 3.8 | 34        |
| 62 | Spatial-Temporal Fusion Convolutional Neural Network for Simulated Driving Behavior Recognition. , 2018, , .  |     | 11        |
| 63 | Smoky Vehicle Detection Based on Range Filtering on Three Orthogonal Planes and Motion Orientation Histogram. IEEE Access, 2018, 6, 57180-57190.                                | 4.2 | 8         |
| 64 | A Spatial Pyramid Pooling Convolutional Neural Network for Smoky Vehicle Detection. , 2018, , .   |     | 5         |
| 65 | Correction of microâ€CT image geometric artefacts based on marker. IET Image Processing, 2018, 12, 888-895.   | 2.5 | 2         |
| 66 | Learning spatial-temporal features for video copy detection by the combination of CNN and RNN. Journal of Visual Communication and Image Representation, 2018, 55, 21-29.       | 2.8 | 37        |
| 67 | Smoky vehicle detection based on multi-feature fusion and ensemble neural networks. Multimedia Tools and Applications, 2018, 77, 32153-32177.                                   | 3.9 | 11        |
| 68 | Smoky vehicle detection in surveillance video based on gray level co-occurrence matrix. , 2018, , .   |     | 5         |
| 69 | Multiscale self-similarity and sparse representation based single image super-resolution. Neurocomputing, 2017, 260, 92-103.  | 5.9 | 12        |
| 70 | Illumination robust single sample face recognition based on ESRC. Multimedia Tools and Applications, 2017, 76, 26523-26550.   | 3.9 | 3         |
| 71 | Adaptive fixed-time control for cluster synchronisation of coupled complex networks with uncertain disturbances. International Journal of Systems Science, 2017, 48, 3382-3390. | 5.5 | 20        |
| 72 | Singular value decomposition and local near neighbors for face recognition under varying illumination. Pattern Recognition, 2017, 64, 60-83.                                    | 8.1 | 55        |

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|----|---|-----|-----------|
| 73 | An adaptive threshold deep learning method for fire and smoke detection. , 2017, , .  |     | 31        |
| 74 | Single Image Super-resolution Based on Residual Learning. , 2017, , .   |     | 0         |
| 75 | An improved sample-based model for background subtraction. , 2017, , .  |     | 1         |
| 76 | A two-column convolutional neural network for facial point detection. , 2016, , .   |     | 3         |
| 77 | Intelligent video analysis-based forest fires smoke detection algorithms. , 2016, , .   |     | 14        |
| 78 | A new distance detection algorithm for images in deflecting angle. , 2016, , .  |     | 2         |
| 79 | Synchronization analysis of coloured delayed networks under decentralized pinning intermittent control. Pramana - Journal of Physics, 2016, 86, 1243-1251.                | 1.8 | 3         |
| 80 | An interval type-2 T-S fuzzy classification system based on PSO and SVM for gender recognition. Multimedia Tools and Applications, 2016, 75, 987-1007.                    | 3.9 | 11        |
| 81 | A wavelet-based denoising method for color image of mobile phone. , 2015, , .   |     | 0         |
| 82 | A lane detection method for freeway aerial videos. , 2015, , .  |     | 1         |
| 83 | A new face recognition method based on image decomposition for single sample per person problem. Neurocomputing, 2015, 160, 287-299.                                      | 5.9 | 27        |
| 84 | An adaptive approximation image reconstruction method for single sample problem in face recognition using FLDA. Multimedia Tools and Applications, 2015, 74, 10313-10334. | 3.9 | 8         |
| 85 | An adaptive method based on QRCP decomposition for single sample problem. , 2014, , .   |     | 2         |
| 86 | A fog level detection method based on image HSV color histogram. , 2014, , .  |     | 26        |
| 87 | Type-2 fuzzy multi-intersection traffic signal control with differential evolution optimization. Expert Systems With Applications, 2014, 41, 7338-7349.                   | 7.6 | 70        |
| 88 | A Generalized DAMRF Image Modeling for Superresolution of License Plates. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 828-837.                     | 8.0 | 37        |