

# Xiaobo Lu

## List of Publications by Year in descending order

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88  
papers

1,345  
citations

394421

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434195

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88  
all docs

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docs citations

88  
times ranked

1106  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An Attention Enhanced Bidirectional LSTM for Early Forest Fire Smoke Recognition. IEEE Access, 2019, 7, 154732-154742.	4.2	74
3	Type-2 fuzzy multi-intersection traffic signal control with differential evolution optimization. Expert Systems With Applications, 2014, 41, 7338-7349.	7.6	70
4	Singular value decomposition and local near neighbors for face recognition under varying illumination. Pattern Recognition, 2017, 64, 60-83.	8.1	55
5	Driver action recognition using deformable and dilated faster R-CNN with optimized region proposals. Applied Intelligence, 2020, 50, 1100-1111.	5.3	50
6	Real-time video fire smoke detection by utilizing spatial-temporal ConvNet features. Multimedia Tools and Applications, 2018, 77, 29283-29301.	3.9	49
7	Driving behaviour recognition from still images by using multi-stream fusion CNN. Machine Vision and Applications, 2019, 30, 851-865.	2.7	48
8	Optimal Type-2 Fuzzy System For Arterial Traffic Signal Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3009-3027.	8.0	42
9	A Generalized DAMRF Image Modeling for Superresolution of License Plates. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 828-837.	8.0	37
10	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
11	A Video Based Fire Smoke Detection Using Robust AdaBoost. Sensors, 2018, 18, 3780.	3.8	34
12	An adaptive threshold deep learning method for fire and smoke detection. , 2017, , .		31
13	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
14	A new face recognition method based on image decomposition for single sample per person problem. Neurocomputing, 2015, 160, 287-299.	5.9	27
15	A fog level detection method based on image HSV color histogram. , 2014, , .		26
16	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
17	Single Sample Face Recognition Under Varying Illumination via QRCP Decomposition. IEEE Transactions on Image Processing, 2019, 28, 2624-2638.	9.8	23
18	Mask-Aware Networks for Crowd Counting. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3119-3129.	8.3	23

#	ARTICLE	IF	CITATIONS
19	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
20	Copy and Paste GAN: Face Hallucination From Shaded Thumbnails. , 2020, , .		23
21	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
22	Toward Driver Face Recognition in the Intelligent Traffic Monitoring Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4958-4971.	8.0	20
23	Face Hallucination With Finishing Touches. IEEE Transactions on Image Processing, 2021, 30, 1728-1743.	9.8	20
24	Smoky vehicle detection based on multi-scale block Tamura features. Signal, Image and Video Processing, 2018, 12, 1061-1068.	2.7	18
25	Automatic smoky vehicle detection from traffic surveillance video based on vehicle rear detection and multi-feature fusion. IET Intelligent Transport Systems, 2019, 13, 252-259.	3.0	18
26	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
27	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
28	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
29	Face illumination recovery for the deep learning feature under severe illumination variations. Pattern Recognition, 2021, 111, 107724.	8.1	15
30	D3D: Dual 3-D Convolutional Network for Real-Time Action Recognition. IEEE Transactions on Industrial Informatics, 2021, 17, 4584-4593.	11.3	15
31	Intelligent video analysis-based forest fires smoke detection algorithms. , 2016, , .		14
32	Learning spatial-temporal representation for smoke vehicle detection. Multimedia Tools and Applications, 2019, 78, 27871-27889.	3.9	14
33	Multiscale self-similarity and sparse representation based single image super-resolution. Neurocomputing, 2017, 260, 92-103.	5.9	12
34	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
35	A motion and lightness saliency approach for forest smoke segmentation and detection. Multimedia Tools and Applications, 2020, 79, 69-88.	3.9	12
36	Global2Salient: Self-adaptive feature aggregation for remote sensing smoke detection. Neurocomputing, 2021, 466, 202-220.	5.9	12

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37	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
38	Spatial-Temporal Fusion Convolutional Neural Network for Simulated Driving Behavior Recognition. , 2018, , .		11
39	Smoky vehicle detection based on multi-feature fusion and ensemble neural networks. Multimedia Tools and Applications, 2018, 77, 32153-32177.	3.9	11
40	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
41	Patchwise dictionary learning for video forest fire smoke detection in wavelet domain. Neural Computing and Applications, 2021, 33, 7965-7977.	5.6	11
42	STCNet: spatiotemporal cross network for industrial smoke detection. Multimedia Tools and Applications, 2022, 81, 10261-10277.	3.9	11
43	Contour-based smoky vehicle detection from surveillance video for alarm systems. Signal, Image and Video Processing, 2019, 13, 217-225.	2.7	10
44	Video smoke separation and detection via sparse representation. Neurocomputing, 2019, 360, 61-74.	5.9	10
45	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
46	FIN-GAN: Face illumination normalization via retinex-based self-supervised learning and conditional generative adversarial network. Neurocomputing, 2021, 456, 109-125.	5.9	9
47	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
48	On Comparing Six Optimization Algorithms for Network-based Wind Speed Forecasting. , 2018, , .		8
49	Smoky Vehicle Detection Based on Range Filtering on Three Orthogonal Planes and Motion Orientation Histogram. IEEE Access, 2018, 6, 57180-57190.	4.2	8
50	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
51	A three-stage framework for smoky vehicle detection in traffic surveillance videos. Information Sciences, 2020, 522, 17-34.	6.9	8
52	Pose-guided model for driving behavior recognition using keypoint action learning. Signal Processing: Image Communication, 2022, 100, 116513.	3.2	8
53	Video-based driver action recognition via hybrid spatial-temporal deep learning framework. Multimedia Systems, 2021, 27, 483-501.	4.7	8
54	Face recognition under varying illumination based on singular value decomposition and retina modeling. Multimedia Tools and Applications, 2018, 77, 28355-28374.	3.9	7

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55	Diagonal Symmetric Pattern-Based Illumination Invariant Measure for Severe Illumination Variation Face Recognition. IEEE Access, 2020, 8, 63202-63213.	4.2	7
56	An efficient network for multi-scale and overlapped wildlife detection. Signal, Image and Video Processing, 2023, 17, 343-351.	2.7	6
57	A Spatial Pyramid Pooling Convolutional Neural Network for Smoky Vehicle Detection. , 2018, , .		5
58	Smoky vehicle detection in surveillance video based on gray level co-occurrence matrix. , 2018, , .		5
59	Bidirectionally aligned sparse representation for single image super-resolution. Multimedia Tools and Applications, 2018, 77, 7883-7907.	3.9	4
60	Pro-UIGAN: Progressive Face Hallucination From Occluded Thumbnails. IEEE Transactions on Image Processing, 2022, 31, 3236-3250.	9.8	4
61	A pose-aware dynamic weighting model using feature integration for driver action recognition. Engineering Applications of Artificial Intelligence, 2022, 113, 104918.	8.1	4
62	A two-column convolutional neural network for facial point detection. , 2016, , .		3
63	Synchronization analysis of coloured delayed networks under decentralized pinning intermittent control. Pramana - Journal of Physics, 2016, 86, 1243-1251.	1.8	3
64	Illumination robust single sample face recognition based on ESRC. Multimedia Tools and Applications, 2017, 76, 26523-26550.	3.9	3
65	Smoky Vehicle Detection Algorithm Based On Improved Transfer Learning. , 2019, , .		3
66	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
67	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
68	Smoky Vehicle Detection Based on Improved Vision Transformer. , 2021, , .		3
69	QuasiVSD: efficient dual-frame smoke detection. Neural Computing and Applications, 2022, 34, 8539-8550.	5.6	3
70	An adaptive method based on QRCP decomposition for single sample problem. , 2014, , .		2
71	A new distance detection algorithm for images in deflecting angle. , 2016, , .		2
72	Correction of microâ€¢CT image geometric artefacts based on marker. IET Image Processing, 2018, 12, 888-895.	2.5	2

#	ARTICLE	IF	CITATIONS
73	An Attention Convolutional Neural Network for Forest Fire Smoke Recognition. , 2019, , .		2
74	A Driver Fatigue Recognition Algorithm Based on Spatio-Temporal Feature Sequence. , 2019, , .		2
75	Multi Scale Attention Network for Crowd Counting. , 2021, , .		2
76	A Semi-Supervised Railway Foreign Object Detection Method Based on GAN. , 2021, , .		2
77	A lane detection method for freeway aerial videos. , 2015, , .		1
78	An improved sample-based model for background subtraction. , 2017, , .		1
79	General logarithm difference model for severe illumination variation face recognition. Multimedia Tools and Applications, 2019, 78, 27425-27447.	3.9	1
80	SCRM: self-correlated representation model for visual tracking. Soft Computing, 2020, 24, 2187-2199.	3.6	1
81	A wavelet-based denoising method for color image of mobile phone. , 2015, , .		0
82	Single Image Super-resolution Based on Residual Learning. , 2017, , .		0
83	A Local Adaptive Structure Sparse Representation Algorithm for Image Reconstruction. , 2018, , .		0
84	A Convolutional Neural Network for Real-Time Vehicle Detection Under the Unmanned Aerial Vehicle Platform. , 2019, , .		0
85	Diagonal Symmetric Pattern Based Illumination Invariant Measure for Severe Illumination Variations. Lecture Notes in Computer Science, 2020, , 29-40.	1.3	0
86	An Improved Faster R-CNN for Railway Fastening System Detection. , 2021, , .		0
87	A Two-step Model for Multi-object Tracking. , 2021, , .		0
88	Effective Indoor Fire Detection with Channel Shuffle Module. , 2021, , .		0