Tian Wang

List of Publications by Year
in descending order

75 papers	1,748 citations	393982 19 h-index	301761 39 g-index
75 all docs	75 docs citations	75 times ranked	1602 citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronous Spatiotemporal Graph Transformer: A New Framework for Traffic Data Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10589-10599.	7.2	4
2	CACrowdGAN: Cascaded Attentional Generative Adversarial Network for Crowd Counting. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8090-8102.	4.7	9
3	Adaptive Optimization Method in Digital Twin Conveyor Systems via Range-Inspection Control. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1296-1304.	3.4	16
4	Accelerating temporal action proposal generation via high performance computing. Frontiers of Computer Science, 2022, 16, 1.	1.6	2
5	ResLNet: deep residual LSTM network with longer input for action recognition. Frontiers of Computer Science, 2022, 16, 1.	1.6	8
6	Wi-ATCN: Attentional Temporal Convolutional Network for Human Action Prediction Using WiFi Channel State Information. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 804-816.	7.3	11
7	Strain-Induced Magnetoelectric Coupling in Fe_3O_4/$BaTiO_3$ Nanopillar Composites. ACS Applied Materials & Interfaces, 2022, 14, 13925-13931.	4.0	10
8	Enhanced Energy Density at a Low Electric Field in PVDF-Based Heterojunctions Sandwiched with High Ion-Polarized BTO Films. ACS Applied Materials & Interfaces, 2022, 14, 17849-17857.	4.0	7
9	RecapNet: Action Proposal Generation Mimicking Human Cognitive Process. IEEE Transactions on Cybernetics, 2021, 51, 6017-6028.	6.2	12
10	Online Detection of Action Start via Soft Computing for Smart City. IEEE Transactions on Industrial Informatics, 2021, 17, 524-533.	7.2	17
11	An enhanced 3DCNNâ€ConvLSTM for spatiotemporal multimedia data analysis. Concurrency Computation Practice and Experience, 2021, 33, e5302.	1.4	7
12	Digital twin improved via visual question answering for vision-language interactive mode in humanâ€"machine collaboration. Journal of Manufacturing Systems, 2021, 58, 261-269.	7.6	28
13	Pose-Guided Inflated 3D ConvNet for action recognition in videos. Signal Processing: Image Communication, 2021, 91, 116098.	1.8	11
14	Surrogate Model via Artificial Intelligence Method for Accelerating Screening Materials and Performance Prediction. Advanced Functional Materials, 2021, 31, 2006245.	7.8	17
15	Brief Introduction of the Machine Learning Method. Springer Series in Materials Science, 2021, , 1-20.	0.4	1
16	FT-MDnet: A Deep-Frozen Transfer Learning Framework for Person Search. IEEE Transactions on Information Forensics and Security, 2021, 16, 4721-4732.	4.5	7
17	Sensored Semantic Annotation for Traffic Control Based on Knowledge Inference in Video. IEEE Sensors Journal, 2021, 21, 11758-11768.	2.4	9
18	A feature binding model in computer vision for object detection. Multimedia Tools and Applications, 2021, 80, 19377-19397.	2.6	2

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19	Digital twin for human-machine interaction with convolutional neural network. International Journal of Computer Integrated Manufacturing, 2021, 34, 888-897.	2.9	22
20	Recent advances of single-object tracking methods: A brief survey. Neurocomputing, 2021, 455, 1-11.	3.5	36
21	3D Human Motion Prediction Based on Graph Convolution Network and Transformer. , 2021, , .		0
22	Spatial-temporal Transformer For Skeleton-based Action Recognition. , 2021, , .		4
23	An Optimized Image Dehazing Algorithm Based on Local Entropy Theory. , 2021, , .		0
24	TDNCIB: Target-Driven Navigation with Convolutional Information Branch Based on Deep Reinforcement Learning. , 2021, , .		0
25	Classification of benign and malignant lung nodules based on residuals and 3D VNet network. , 2021, , .		1
26	STD-TR: End-to-End Spatio-Temporal Action Detection with Transformers. , 2021, , .		3
27	Deep learning of Hash Method for Fast Image Retrieval. , 2021, , .		0
28	Data-driven prognostic method based on self-supervised learning approaches for fault detection. Journal of Intelligent Manufacturing, 2020, 31, 1611-1619.	4.4	56
29	Abnormal event detection via the analysis of multi-frame optical flow information. Frontiers of Computer Science, 2020, 14, 304-313.	1.6	18
30	Thermal Conductivity of Amorphous Materials. Advanced Functional Materials, 2020, 30, 1903829.	7.8	149
31	Machine Learning Approaches for Thermoelectric Materials Research. Advanced Functional Materials, 2020, 30, 1906041.	7.8	114
32	Exploring a rich spatial–temporal dependent relational model for skeleton-based action recognition by bidirectional LSTM-CNN. Neurocomputing, 2020, 414, 90-100.	3.5	53
33	Learning spatial–temporal features via a pose-flow relational model for action recognition. AIP Advances, 2020, 10, .	0.6	2
34	TADBD: a sensitive and fast method for detection of typologically associated domain boundaries. BioTechniques, 2020, 69, 18-25.	0.8	9
35	Multiple Kernelized Correlation Filters (MKCF) for Extended Object Tracking Using X-Band Marine Radar Data. IEEE Transactions on Signal Processing, 2019, 67, 3676-3688.	3.2	39
36	AED-Net: An Abnormal Event Detection Network. Engineering, 2019, 5, 930-939.	3.2	28

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37	Flying Small Target Detection for Anti-UAV Based on a Gaussian Mixture Model in a Compressive Sensing Domain. Sensors, 2019, 19, 2168.	2.1	17
38	An On-Line and Adaptive Method for Detecting Abnormal Events in Videos Using Spatio-Temporal ConvNet. Applied Sciences (Switzerland), 2019, 9, 757.	1.3	23
39	Sequential Detection of Flying Small Target in Infrared Images Based on Generalized Low-Rank Background Estimation. , 2019, , .		1
40	Hierarchical Attention Networks for Image Classification of Remote Sensing Images Based on Visual Q&A Methods. , 2019, , .		2
41	Event prediction via spatio-temporal sequence analysis. , 2019, , .		0
42	A satellite image target detection model based on an improved single-stage target detection network. , 2019, , .		2
43	Video Object Detection Base on RGB and Optical Flow Analysis. , 2019, , .		4
44	Multiple human upper bodies detection via candidate-region convolutional neural network. Multimedia Tools and Applications, 2019, 78, 16077-16096.	2.6	5
45	Generative Neural Networks for Anomaly Detection in Crowded Scenes. IEEE Transactions on Information Forensics and Security, 2019, 14, 1390-1399.	4.5	99
46	A reinforcement learning approach for UAV target searching and tracking. Multimedia Tools and Applications, 2019, 78, 4347-4364.	2.6	67
47	Pose-based multisource networks using convolutional neural network and long short-term memory for action recognition. Journal of Electronic Imaging, 2019, 28, 1.	0.5	4
48	Abnormal object detection and recognition in the complex construction site via cloud computing. , 2019, , .		0
49	Hierarchical graphical-based human pose estimation via local multi-resolution convolutional neural network. AIP Advances, 2018, 8, 035215.	0.6	8
50	Video feature descriptor combining motion and appearance cues with length-invariant characteristics. Optik, 2018, 157, 1143-1154.	1.4	7
51	Abnormal event detection based on analysis of movement information of video sequence. Optik, 2018, 152, 50-60.	1.4	47
52	A fast and robust convolutional neural network-based defect detection model in product quality control. International Journal of Advanced Manufacturing Technology, 2018, 94, 3465-3471.	1.5	326
53	Abnormal event detection via covariance matrix for optical flow based feature. Multimedia Tools and Applications, 2018, 77, 17375-17395.	2.6	38
54	Unmanned Trolley Control Based on Kinect. , 2018, , .		0

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55	Distributed Harmonic Form Computation. IEEE Signal Processing Letters, 2018, 25, 1241-1245.	2.1	2
56	Abnormal global and local event detection in compressive sensing domain. AIP Advances, 2018, 8, 055224.	0.6	1
57	Auto-sorting System Towards Smart Factory based on Deep learning for Image Segmentation. IEEE Sensors Journal, 2018, , 1-1.	2.4	17
58	Multisource learning for skeleton-based action recognition using deep LSTM and CNN. Journal of Electronic Imaging, 2018, 27, 1.	0.5	5
59	Internal Transfer Learning for Improving Performance in Human Action Recognition for Small Datasets. IEEE Access, 2017, 5, 17627-17633.	2.6	46
60	Object detection in remote sensing images based on one-class classification. , 2017, , .		2
61	Using Gabor filter in 3D convolutional neural networks for human action recognition. , 2017, , .		11
62	Abnormal event detection based on deep autoencoder fusing optical flow. , 2017, , .		7
63	Real time Object Tracking based on Local Texture Feature with Correlation Filter. , 2016, , .		2
64	Detection of Abnormal Event in Complex Situations Using Strong Classifier Based on BP Adaboost. Lecture Notes in Computer Science, 2016, , 245-256.	1.0	1
65	Histogram of Maximal Optical Flow Projection for Abnormal Events Detection in Crowded Scenes. International Journal of Distributed Sensor Networks, 2015, 11, 406941.	1.3	10
66	Event analysis based on multiple video sensors for cooperative environment perception. , 2015, , .		0
67	Detection of Abnormal Events via Optical Flow Feature Analysis. Sensors, 2015, 15, 7156-7171.	2.1	26
68	Human pose estimation with multiple mixture parts model based on upper body categories. Journal of Electronic Imaging, 2015, 24, 043021.	0.5	10
69	Joint Abnormal Blob Detection and Localization Under Complex Scenes. Lecture Notes in Computer Science, 2015, , 283-292.	1.0	0
70	Abnormal Event Detection via Multikernel Learning for Distributed Camera Networks. International Journal of Distributed Sensor Networks, 2015, 11, 989450.	1.3	5
71	Detection of Abnormal Visual Events via Global Optical Flow Orientation Histogram. IEEE Transactions on Information Forensics and Security, 2014, 9, 988-998.	4.5	140
72	Histograms of optical flow orientation for abnormal events detection. , 2013, , .		16

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73	Online Least Squares One-Class Support Vector Machines-Based Abnormal Visual Event Detection. Sensors, 2013, 13, 17130-17155.	2.1	26
74	Online Detection of Abnormal Events in Video Streams. Journal of Electrical and Computer Engineering, 2013, 2013, 1-12.	0.6	11
75	Histograms of Optical Flow Orientation for Visual Abnormal Events Detection. , 2012, , .		48