Tian Wang

List of Publications by Year
in descending order

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75 papers	1,748 citations	394421 19 h-index	302126 39 g-index
75 all docs	75 docs citations	75 times ranked	1602 citing authors

#	Article	IF	Citations
1	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.	3.0	326
2	Thermal Conductivity of Amorphous Materials. Advanced Functional Materials, 2020, 30, 1903829.	14.9	149
3	Detection of Abnormal Visual Events via Global Optical Flow Orientation Histogram. IEEE Transactions on Information Forensics and Security, 2014, 9, 988-998.	6.9	140
4	Machine Learning Approaches for Thermoelectric Materials Research. Advanced Functional Materials, 2020, 30, 1906041.	14.9	114
5	Generative Neural Networks for Anomaly Detection in Crowded Scenes. IEEE Transactions on Information Forensics and Security, 2019, 14, 1390-1399.	6.9	99
6	A reinforcement learning approach for UAV target searching and tracking. Multimedia Tools and Applications, 2019, 78, 4347-4364.	3.9	67
7	Data-driven prognostic method based on self-supervised learning approaches for fault detection. Journal of Intelligent Manufacturing, 2020, 31, 1611-1619.	7.3	56
8	Exploring a rich spatialâ€“temporal dependent relational model for skeleton-based action recognition by bidirectional LSTM-CNN. Neurocomputing, 2020, 414, 90-100.	5.9	53
9	Histograms of Optical Flow Orientation for Visual Abnormal Events Detection. , 2012, , .		48
10	Abnormal event detection based on analysis of movement information of video sequence. Optik, 2018, 152, 50-60.	2.9	47
11	Internal Transfer Learning for Improving Performance in Human Action Recognition for Small Datasets. IEEE Access, 2017, 5, 17627-17633.	4.2	46
12	Multiple Kernelized Correlation Filters (MKCF) for Extended Object Tracking Using X-Band Marine Radar Data. IEEE Transactions on Signal Processing, 2019, 67, 3676-3688.	5.3	39
13	Abnormal event detection via covariance matrix for optical flow based feature. Multimedia Tools and Applications, 2018, 77, 17375-17395.	3.9	38
14	Recent advances of single-object tracking methods: A brief survey. Neurocomputing, 2021, 455, 1-11.	5.9	36
15	AED-Net: An Abnormal Event Detection Network. Engineering, 2019, 5, 930-939.	6.7	28
16	Digital twin improved via visual question answering for vision-language interactive mode in humanâ€“machine collaboration. Journal of Manufacturing Systems, 2021, 58, 261-269.	13.9	28
17	Online Least Squares One-Class Support Vector Machines-Based Abnormal Visual Event Detection. Sensors, 2013, 13, 17130-17155.	3.8	26
18	Detection of Abnormal Events via Optical Flow Feature Analysis. Sensors, 2015, 15, 7156-7171.	3.8	26

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19	An On-Line and Adaptive Method for Detecting Abnormal Events in Videos Using Spatio-Temporal ConvNet. Applied Sciences (Switzerland), 2019, 9, 757.	2.5	23
20	Digital twin for human-machine interaction with convolutional neural network. International Journal of Computer Integrated Manufacturing, 2021, 34, 888-897.	4.6	22
21	Abnormal event detection via the analysis of multi-frame optical flow information. Frontiers of Computer Science, 2020, 14, 304-313.	2.4	18
22	Auto-sorting System Towards Smart Factory based on Deep learning for Image Segmentation. IEEE Sensors Journal, 2018, , 1-1.	4.7	17
23	Flying Small Target Detection for Anti-UAV Based on a Gaussian Mixture Model in a Compressive Sensing Domain. Sensors, 2019, 19, 2168.	3.8	17
24	Online Detection of Action Start via Soft Computing for Smart City. IEEE Transactions on Industrial Informatics, 2021, 17, 524-533.	11.3	17
25	Surrogate Model via Artificial Intelligence Method for Accelerating Screening Materials and Performance Prediction. Advanced Functional Materials, 2021, 31, 2006245.	14.9	17
26	Histograms of optical flow orientation for abnormal events detection. , 2013, , .		16
27	Adaptive Optimization Method in Digital Twin Conveyor Systems via Range-Inspection Control. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1296-1304.	5.2	16
28	RecapNet: Action Proposal Generation Mimicking Human Cognitive Process. IEEE Transactions on Cybernetics, 2021, 51, 6017-6028.	9.5	12
29	Online Detection of Abnormal Events in Video Streams. Journal of Electrical and Computer Engineering, 2013, 2013, 1-12.	0.9	11
30	Using Gabor filter in 3D convolutional neural networks for human action recognition. , 2017, , .		11
31	Pose-Guided Inflated 3D ConvNet for action recognition in videos. Signal Processing: Image Communication, 2021, 91, 116098.	3.2	11
32	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.	10.8	11
33	Histogram of Maximal Optical Flow Projection for Abnormal Events Detection in Crowded Scenes. International Journal of Distributed Sensor Networks, 2015, 11, 406941.	2.2	10
34	Human pose estimation with multiple mixture parts model based on upper body categories. Journal of Electronic Imaging, 2015, 24, 043021.	0.9	10
35	Strain-Induced Magnetoelectric Coupling in Fe₃O₄/BaTiO₃ Nanopillar Composites. ACS Applied Materials & Interfaces, 2022, 14, 13925-13931.	8.0	10
36	Sensored Semantic Annotation for Traffic Control Based on Knowledge Inference in Video. IEEE Sensors Journal, 2021, 21, 11758-11768.	4.7	9

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37	CACrowdGAN: Cascaded Attentional Generative Adversarial Network for Crowd Counting. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8090-8102.	8.0	9
38	TADBD: a sensitive and fast method for detection of typologically associated domain boundaries. BioTechniques, 2020, 69, 18-25.	1.8	9
39	Hierarchical graphical-based human pose estimation via local multi-resolution convolutional neural network. AIP Advances, 2018, 8, 035215.	1.3	8
40	ResLNet: deep residual LSTM network with longer input for action recognition. Frontiers of Computer Science, 2022, 16, 1.	2.4	8
41	Abnormal event detection based on deep autoencoder fusing optical flow. , 2017, , .		7
42	Video feature descriptor combining motion and appearance cues with length-invariant characteristics. Optik, 2018, 157, 1143-1154.	2.9	7
43	An enhanced 3DCNNâ€ConvLSTM for spatiotemporal multimedia data analysis. Concurrency Computation Practice and Experience, 2021, 33, e5302.	2.2	7
44	FT-MDnet: A Deep-Frozen Transfer Learning Framework for Person Search. IEEE Transactions on Information Forensics and Security, 2021, 16, 4721-4732.	6.9	7
45	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.	8.0	7
46	Multiple human upper bodies detection via candidate-region convolutional neural network. Multimedia Tools and Applications, 2019, 78, 16077-16096.	3.9	5
47	Multisource learning for skeleton-based action recognition using deep LSTM and CNN. Journal of Electronic Imaging, 2018, 27, 1.	0.9	5
48	Abnormal Event Detection via Multikernel Learning for Distributed Camera Networks. International Journal of Distributed Sensor Networks, 2015, 11, 989450.	2.2	5
49	Video Object Detection Base on RGB and Optical Flow Analysis. , 2019, , .		4
50	Pose-based multisource networks using convolutional neural network and long short-term memory for action recognition. Journal of Electronic Imaging, 2019, 28, 1.	0.9	4
51	Spatial-temporal Transformer For Skeleton-based Action Recognition. , 2021, , .		4
52	Synchronous Spatiotemporal Graph Transformer: A New Framework for Traffic Data Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10589-10599.	11.3	4
53	STD-TR: End-to-End Spatio-Temporal Action Detection with Transformers. , 2021, , .		3
54	Real time Object Tracking based on Local Texture Feature with Correlation Filter. , 2016, , .		2

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55	Object detection in remote sensing images based on one-class classification. , 2017, , .		2
56	Distributed Harmonic Form Computation. IEEE Signal Processing Letters, 2018, 25, 1241-1245.	3.6	2
57	Hierarchical Attention Networks for Image Classification of Remote Sensing Images Based on Visual Q&A Methods. , 2019, , .		2
58	A satellite image target detection model based on an improved single-stage target detection network. , 2019, , .		2
59	Learning spatialâ€“temporal features via a pose-flow relational model for action recognition. AIP Advances, 2020, 10, .	1.3	2
60	A feature binding model in computer vision for object detection. Multimedia Tools and Applications, 2021, 80, 19377-19397.	3.9	2
61	Accelerating temporal action proposal generation via high performance computing. Frontiers of Computer Science, 2022, 16, 1.	2.4	2
62	Detection of Abnormal Event in Complex Situations Using Strong Classifier Based on BP Adaboost. Lecture Notes in Computer Science, 2016, , 245-256.	1.3	1
63	Abnormal global and local event detection in compressive sensing domain. AIP Advances, 2018, 8, 055224.	1.3	1
64	Sequential Detection of Flying Small Target in Infrared Images Based on Generalized Low-Rank Background Estimation. , 2019, , .		1
65	Brief Introduction of the Machine Learning Method. Springer Series in Materials Science, 2021, , 1-20.	0.6	1
66	Classification of benign and malignant lung nodules based on residuals and 3D VNet network. , 2021, , .		1
67	Event analysis based on multiple video sensors for cooperative environment perception. , 2015, , .		0
68	Joint Abnormal Blob Detection and Localization Under Complex Scenes. Lecture Notes in Computer Science, 2015, , 283-292.	1.3	0
69	Unmanned Trolley Control Based on Kinect. , 2018, , .		0
70	Event prediction via spatio-temporal sequence analysis. , 2019, , .		0
71	Abnormal object detection and recognition in the complex construction site via cloud computing. , 2019, , .		0
72	3D Human Motion Prediction Based on Graph Convolution Network and Transformer. , 2021, , .		0

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73	An Optimized Image Dehazing Algorithm Based on Local Entropy Theory. , 2021, , .		0
74	TDNCIB: Target-Driven Navigation with Convolutional Information Branch Based on Deep Reinforcement Learning. , 2021, , .		0
75	Deep learning of Hash Method for Fast Image Retrieval. , 2021, , .		0