Zhen Liu

List of Publications by Year
in descending order

29 papers	530 citations	623734 14 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	476 citing authors

#	Article	IF	Citations
1	A Novel Subpixel Edge Detection Method of Pantograph Slide in Complicated Surroundings. IEEE Transactions on Industrial Electronics, 2022, 69, 3172-3182.	7.9	7
2	Line Structured-Light Vision Sensor Calibration Based on Multi-Tooth Free-Moving Target and Its Application in Railway Fields. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5762-5771.	8.0	11
3	Robust Method for Measuring the Position and Orientation of Drogue Based on Stereo Vision. IEEE Transactions on Industrial Electronics, 2021, 68, 4298-4308.	7.9	16
4	Novel Multistate Fault Diagnosis and Location Method for Key Components of High-Speed Trains. IEEE Transactions on Industrial Electronics, 2021, 68, 3537-3547.	7.9	17
5	Automatic Wear Measurement of Pantograph Slider Based on Multiview Analysis. IEEE Transactions on Industrial Informatics, 2021, 17, 3111-3121.	11.3	15
6	Target Tracking Based on Multiparameter Adaptive Adjustment for Autonomous Aerial Refueling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	6
7	Pose Measurement for Unmanned Aerial Vehicle Based on Rigid Skeleton. Applied Sciences (Switzerland), 2021, 11, 1373.	2.5	0
8	Vision Sensor for Measuring Aerial Refueling Drogue Using Robust Method. IEEE Sensors Journal, 2021, 21, 28037-28049.	4.7	1
9	A Robust 3-D Abrasion Diagnosis Method of Pantograph Slipper Based on Stereo Vision. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9072-9086.	4.7	8
10	PAC Interaction Inspection Using Real-Time Contact Point Tracking. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4051-4064.	4.7	16
11	Barcode detection and decoding method based on deep learning. , 2019, , .		4
12	On-Site Reliable Wheel Size Measurement Based on Multisensor Data Fusion. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4575-4589.	4.7	17
13	A Novel Stereo Vision Measurement System Using Both Line Scan Camera and Frame Camera. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3563-3575.	4.7	27
14	High-accuracy calibration of line-structured light vision sensor by correction of image deviation. Optics Express, 2019, 27, 4364.	3.4	20
15	Automatic Fault Detection of Multiple Targets in Railway Maintenance Based on Time-Scale Normalization. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 849-865.	4.7	26
16	On-line Detection of Pantograph Offset Based on Deep Learning. , 2018, , .		4
17	Reliable and Accurate Wheel Size Measurement under Highly Reflective Conditions. Sensors, 2018, 18, 4296.	3.8	6
18	Tracking and Position of Drogue for Autonomous Aerial Refueling. , 2018, , .		6

#	Article	IF	Citations
19	A Pantograph Horn Detection Method Based on Deep Learning Network. , 2018, , .		5
20	Robust object tracking via multi-cue fusion. Signal Processing, 2017, 139, 86-95.	3.7	23
21	Flexible method of refraction correction in vision measurement systems with multiple glass ports. Optics Express, 2017, 25, 831.	3.4	11
22	High-accuracy calibration of low-cost camera using image disturbance factor. Optics Express, 2016, 24, 24321.	3.4	40
23	Automatic visual inspection of a missing split pin in the China railway high-speed. Applied Optics, 2016, 55, 8395.	2.1	11
24	On-site calibration of line-structured light vision sensor in complex light environments. Optics Express, 2015, 23, 29896.	3.4	31
25	Fast and Flexible Movable Vision Measurement for the Surface of a Large-Sized Object. Sensors, 2015, 15, 4643-4657.	3.8	10
26	Calibration method for line-structured light vision sensor based on a single ball target. Optics and Lasers in Engineering, 2015, 69, 20-28.	3.8	66
27	Dynamic tread wear measurement method for train wheels against vibrations. Applied Optics, 2015, 54, 5270.	2.1	19
28	Accurate camera calibration with distortion models using sphere images. Optics and Laser Technology, 2015, 65, 83-87.	4.6	24
29	Simple and fast rail wear measurement method based on structured light. Optics and Lasers in Engineering, 2011, 49, 1343-1351.	3.8	83