

# Zhiwei Han

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Automatic Defect Detection of Fasteners on the Catenary Support Device Using Deep Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 257-269.	2.4	322
2	A CNN-Based Defect Inspection Method for Catenary Split Pins in High-Speed Railway. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2849-2860.	2.4	115
3	A High-Precision Loose Strands Diagnosis Approach for Isoelectric Line in High-Speed Railway. IEEE Transactions on Industrial Informatics, 2018, 14, 1067-1077.	7.2	69
4	A High-Precision Detection Approach for Catenary Geometry Parameters of Electrical Railway. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1798-1808.	2.4	55
5	Detection Approach Based on an Improved Faster RCNN for Brace Sleeve Screws in High-Speed Railways. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4395-4403.	2.4	46
6	A Generic Anomaly Detection of Catenary Support Components Based on Generative Adversarial Networks. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2439-2448.	2.4	46
7	Detection of Contact Wire Irregularities Using a Quadratic Time-Frequency Representation of the Pantograph-Catenary Contact Force. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1385-1397.	2.4	42
8	A High-Precision Positioning Approach for Catenary Support Components With Multiscale Difference. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 700-711.	2.4	42
9	Advances of research on high-speed railway catenary. Journal of Modern Transportation, 2018, 26, 1-23.	2.5	38
10	Computer vision-based automatic rod-insulator defect detection in high-speed railway catenary system. International Journal of Advanced Robotic Systems, 2018, 15, 172988141877394.	1.3	23
11	An Automated Defect Detection Approach for Catenary Rod-Insulator Textured Surfaces Using Unsupervised Learning. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	23
12	Unified Deep Learning Architecture for the Detection of All Catenary Support Components. IEEE Access, 2020, 8, 17049-17059.	2.6	20
13	A Looseness Detection Method for Railway Catenary Fasteners Based on Reinforcement Learning Refined Localization. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	17
14	Cantilever Structure Segmentation and Parameters Detection Based on Concavity and Convexity of 3-D Point Clouds. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3026-3036.	2.4	14
15	High-Precision Detection Method for Structure Parameters of Catenary Cantilever Devices Using 3-D Point Cloud Data. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	10
16	Low-Frequency Instability Induced by Hopf Bifurcation in a Single-Phase Converter Connected to Non-Ideal Power Grid. IEEE Access, 2020, 8, 62871-62882.	2.6	9
17	A Steady Arm Slope Detection Method Based on 3D Point Cloud Segmentation. , 2018, , .		7
18	A Loose Default Diagnosis Method for Oblique Bracing Wire in High-Speed Railway. IFAC-PapersOnLine, 2019, 52, 18-23.	0.5	2

#	ARTICLE	IF	CITATIONS
19	A Multilevel Feature and Structure Prior Information-Based Positioning Approach for Catenary Support Components. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	1
20	A Location-Enhanced and Multiscale-Friendly Crowd Detecting Approach for Tram. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	1
21	Research on Deep Learning-based Deraining Method of Catenary Images. , 2021, , .		1
22	Detection Approach Based on an Improved Yolov5 for Catenary Support Components. Lecture Notes in Electrical Engineering, 2022, , 560-568.	0.3	0