

Title: Photovoltaic panel detection lens

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This paper proposes a photovoltaic panel defect detection method based on an improved YOLOv11 architecture. By introducing the CFA and C2CGA modules, the YOLOv11 model is ...

The LEM-Detector's high detection accuracy further validates the effectiveness of the LFA, EFEM, and MMFPN in multi-scale defect detection of photovoltaic panel images.

This identification algorithm provides automated inspection and monitoring capabilities for photovoltaic panels under visible light conditions.

To tackle the challenge of modeling PV panels with diverse structures, we propose a coupled U-Net and Vision Transformer model named TransPV for refining PV semantic segmentation.

Select an area on the map and AI will instantly detect and count solar panels from aerial imagery. Detection results include latitude/longitude and geocoded address information.

To tackle this challenge, we propose an Adaptive Complementary Fusion (ACF) module designed to intelligently integrate spatial and channel information.

This approach allows us to remotely determine the presence of PV working zones and outline their appearance. By leveraging our PLu-based HS imaging technique and the K-mc-based ...

Recognition of photovoltaic cells in aerial images with Convolutional Neural Networks (CNNs). Object detection with YOLOv5 models and image segmentation with Unet++, FPN, DLV3+ and PSPNet.

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