

Based on the summary, it is apparent that solar panel defect detection and dust detection are two separate areas of research, and the studies mainly focused on a single aspect of ...

By combining bilateral filtering with MSRCR, we have developed an algorithm that not only improves contrast and color saturation but also preserves critical details necessary for accurate ...

In this paper we investigate a few different ways to diminish the cloudiness from the pictures that are shot either in foggy climate conditions or some other hindrances noticeable all around which ...

We hear from some of our customers who've had their stations for a while that the solar panel that powers the station tends to fog up. Many longtime users describe a whitish or hazy ...

To address these issues, this study proposes an algorithm based on an improved YOLOv9t model for detecting stains and damage on PV panels.

The prime motive of this paper is to present a detailed analysis and summary of state-of-the-art single image defogging techniques developed over the past decade.

We report here on application of a pole-mount UV-flash camera system to the detection of defects on residential rooftops in Boulder Colorado. The majority of tested system exhibited useful UVF images, ...

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The photothermal coating can be coated on a variety of substrates, including flexible and curved surfaces at large scale, and exhibits notable antifogging and defogging with long-term durability.

This enables our single-image defogging method to run about 100 times faster than the reference method, making it well suited for application to surveillance systems and in-vehicle systems.

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