Wang Wen Photovoltaic Panel

Therefore, it is crucial to detect and monitor PV panels for faults. The traditional target detection method has limitations, including low recognition accuracy and slow detection speed. This paper suggests an ...

In summary, in order to solve the problem of low efficiency of traditional inspection methods, we propose a deep learning inspection model for PV panel defect detection, which ...

This study employed artificial rainfall experiments on 12-m slopes and PV panel array containing four panels to examine the influence of PV panel arrays on rainfall-runoff and soil erosion ...

Optimizing the installation parameters of photovoltaic panels in a ...

It is a public dataset for extracting high-quality photovoltaic panels in large-scale systems. The PVP Dataset contains 4640 pairs image of PV panel samples from 13 provinces in China.

Optimizing the installation parameters of photovoltaic panels in a photovoltaic array to reduce dust accumulation, thereby enhancing their power generation, is a crucial research topic in the...

Since the introduction of photovoltaic desertification control projects in Kubuqi, Wen has frequently heard the term "Photovoltaic Great Wall." Inspired by the initiative, he decided to ...

Dye-sensitized solar cells (DSSCs) can directly convert solar energy into electricity, and have aroused great research interest from researchers. Here, the spherical Fe7S8@rGO nanocomposites were...

To prevent partial-shading issues in photovoltaic (PV) systems, various kinds of voltage equalizers that virtually unify characteristics of shaded and unshaded modules have been proposed.

Pan, Wenwen, Sun, Xiaofei, Wang, Yilun, Cao, Yang, Lang, Yizheng, Qian, Yunsheng (2024) Enhanced photovoltaic panel defect detection via adaptive complementary fusion in YOLO-ACF.

Within this research, we introduce a streamlined yet effective model founded on the "You Only Look Once" algorithm to detect photovoltaic panel defects in intricate settings.

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