

The key to photovoltaic operation and maintenance is the accurate multifault identification of photovoltaic panel images collected using drones. In this paper, PV-YOLO is proposed to ...

The dust accumulation on photovoltaic panels will reduce the conversion efficiency of photovoltaic power generation, and easily cause damage to the photovoltaic panels at the same time. ...

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This article presents a solution to the challenges in detecting rare faults in photovoltaic panels (PvPs), where sample imbalance and diverse damage types lead to a wide range of failure ...

Controlling solar panel power plants and rooftop panel applications installed in large areas can be difficult and time-consuming. Therefore, this paper designs a system that ...

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The identification and segmentation of photovoltaic panel areas are crucial for precise defect detection and accurate component localization in photovoltaic power plants. To address the ...

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In this paper, an artificial neural network (ANN) is used for isolating faults and degradation phenomena

occurring in photovoltaic (PV) panels. In the literature, it is well known ...

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