Photovoltaic panel foreign body recognition algorithm

+-- LICENSE +-- README.md <- The top-level README for developers using this project. +-- data <- Data for the project (ommited) +-- docs <- A default Sphinx project; see sphinx ...

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Experimental results show that in the recognition of the dust accumulation of photovoltaic panel at four levels of real photovoltaic power stations, the improved ResNeXt50 model has a ...

To address these problems, this paper proposes an IDETR deep learning target detection model based on Deformable DETR combined with transfer learning and a convolutional block attention module, which can ...

It effectively addresses the untimely detection and inaccurate localization of PV panel foreign body shading, as well as the difficulty of shading area detection. Besides, it also ...

During the long-term operation of the photovoltaic (PV) system, occlusion will reduce the solar radiation energy received by the PV module, as well as the photoelectric conversion efficiency ...

The process of detecting photovoltaic cell electroluminescence (EL) images using a deep learning model is depicted in Fig. 1 itially, the EL images are input into a neural ...

on the solar panel defect detection data set show that after the improvement of the algorithm, the overall precision is increased by 1.5%, the recall rate is increased by 2.4%, ...

The results of comparative experiments on the solar panel defect detection data set show that after the improvement of the algorithm, the overall precision is increased by 1.5%, the recall rate is ...

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