Photovoltaic panel foreign body detection dataset

Results and Discussion Proposed approach works in two phases wherein the first phase deals with locating the potential hotspots that need to be examined while the second ...

Model-definition is a deep learning application for fault detection in photovoltaic plants. In this repository you will find trained detection models that point out where the panel faults are by using radiometric thermal infrared pictures. In Web-API ...

+-- 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 ...

The input aerial images are RGB aerial images in PNG form and each image has size 250×250×3 with pixelsize 0.25×0.25 m^2. All the images in the dataset are manually labelled using the useful functions in labelling_tool.; The labelled ...

Solar energy is the fastest-growing clean and sustainable energy source, outperforming other forms of energy generation. Usually, solar panels are low maintenance and do not require permanent service. However, plenty of ...

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 ...

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