

Aerial view of outdoor photovoltaic panels

Are annotated solar panels available in native resolution and HD satellite imagery?

To the best knowledge of the authors, there are no publicly available datasets including annotated solar panels in native resolution and HD satellite imagery. The process for creating the paired native resolution and HD image tiles and associated labels. Both sets of components contain three image tiles and 2,542 annotated solar panels.

How many annotated solar panels are there?

The dataset of 2,542 annotated solar panels may be used independently to develop detection models uniquely applicable to satellite imagery or in conjunction with existing solar panel aerial imagery datasets to support generalized detection models.

Do solar panels have object detection models?

Reports of solar panel installations have been supplemented with object detection models developed and used on openly available aerial imagery, a type of imagery collected by aircraft or drones and limited by cost, extent, and geographic location.

Can satellite imagery improve solar panel detection accuracy?

We address these limitations by providing a solar panel dataset derived from 31 cm resolution satellite imagery to support rapid and accurate detection at regional and international scales. We also include complementary satellite imagery at 15.5 cm resolution with the aim of further improving solar panel detection accuracy.

Why do we need a reliable report on residential solar panels?

With increasingly reliable reporting of residential solar panel installations, researchers and policy-makers can make more informed decisions regarding monitoring and rectifying existing limitations to residential-scale renewable energy access and implement data-driven solutions to combat climate change.

How much power does a photovoltaic system produce in 2021?

In 2021, photovoltaic (PV) power generation amounted to 821 TWh worldwide and 14.3 TWh in France 1. With an installed capacity of about 633 GWp worldwide 2 and 13.66 GWp in France, PV energy represents a growing share of the energy supply.

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Abstract. In the context of global carbon emission reduction, solar photovoltaic (PV) technology is experiencing rapid development. Accurate localized PV information, including location and size, is the basis for PV ...

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