

# High-resolution photo of photovoltaic solar panels

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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.

Can aerial imagery be used to classify solar panels?

The body of research on classification of solar panel arrays from aerial imagery is increasing, yet there are still not many public benchmark datasets.

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.

What is photovoltaic energy generation & why is it important?

Provided by the Springer Nature SharedIt content-sharing initiative Photovoltaic (PV) energy generation plays a crucial role in the energy transition. Small-scale, rooftop PV installations are deployed at an unprecedented pace, and their safe integration into the grid requires up-to-date, high-quality information.

Why do satellite imagery datasets include large-scale solar panel annotations?

Existing satellite imagery datasets often include large-scale, or non-residential, solar panel annotations due to resolution of the imagery and therefore ability to detect small objects 9,10.

The building sector is responsible for about one third of the global final energy consumption and CO<sub>2</sub> emission, thus it is desired to limit and replace building-related fossil ...

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We also have images of solar panels in different seasons, including winter, summer, spring, and fall. All our images are professionally taken, providing high-quality, high-resolution images that will enhance your project. Where to Use ...

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