

Mountain transportation of photovoltaic panels

Are roads and industrial roof tops misclassified into PV power stations?

Other land cover types especially the roads and industrial roof tops may be misclassified into PV power stations. The drawback of this study is that roads and other facilities have not been classified, leading to a risk of underestimating the areas of PV power stations.

Can remote sensing derived data be used for large-scale photovoltaic power stations?

Scientific Data 11, Article number: 198 (2024) Cite this article We provide a remote sensing derived dataset for large-scale ground-mounted photovoltaic (PV) power stations in China of 2020, which has high spatial resolution of 10 meters.

What is remote sensing derived dataset for large-scale photovoltaic power stations in China?

We provide a remote sensing derived dataset for large-scale ground-mounted photovoltaic (PV) power stations in China of 2020, which has high spatial resolution of 10 meters. The dataset is based on the Google Earth Engine (GEE) cloud computing platform via random forest classifier and active learning strategy.

Why is photovoltaic power important?

As an indispensable part of renewable energy sources, photovoltaic (PV) power has drawn increasingly more attention around the globe nowadays 1, 2.

Is Sentinel 2 a good choice for PV power station mapping?

As an important part of European Space Agency's (ESA) Copernicus mission, Sentinel-2 satellite provides a high resolution (10-m) multi-spectral remote sensing data with a global coverage 22. Compared with NASA's Landsat data, Sentinel-2 shows two major advantages, making it a better choice for national-scale PV power station mapping.

Is photovoltaic technology a good option for conserving water supply?

Fthenakis and Kim (2010) reviewed the recent studies related to water usage in conventional and renewable energy type of technologies from a full-lifecycle standpoint tacking inconsideration water demand factors (withdrawal and consumption). They showed that moving to photovoltaic technology would be the best option for conserving water supply.

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