

What is sky images & photovoltaic power generation dataset?

To fill these gaps, we introduce SKIPP'D--a SKy Images and Photovoltaic Power Generation Dataset. The dataset contains three years (2017-2019) of quality-controlled down-sampled sky images and PV power generation data that is ready-to-use for short-term solar forecasting using deep learning.

What is Earth Engine timelapse?

Timelapse. Timelapse is an example that illustrates the power of Earth Engine's cloud-computing model, which enables users such as scientists, researchers, and journalists to detect changes, map trends, and quantify differences on the Earth's surface using Google's computational infrastructure and the multi-petabyte Earth Engine data catalog.

How a low update frequency satellite image is used in PV power forecast?

Therefore, estimating the intra-hour satellite images through the low update frequency satellite images plays an indispensable role in PV power forecast. To match the general temporal resolution requirements of the ultra-short-term PV power forecast, the SCRS algorithm is developed based on the ACRS rule.

Where are the PV power generation data from?

The PV power generation data are from PV panel approximately 125 m away from the camera on the roof of the Jen-Hsun Huang Engineering Center at Stanford University, which are logged by Stanford Utility and shared to us.

What is a curated sky image & PV generation dataset?

A curated sky image and PV generation dataset is released for short-term solar forecasting. Processed benchmark data and raw data are both provided for flexibility of research. Reference codes for data processing and baseline model implementations are provided. Baseline deep learning models are developed to demonstrate the uses of the dataset.

Is there a standardized benchmark dataset for image-based solar forecasting?

However, there are few publicly available standardized benchmark datasets for image-based solar forecasting, which limits the comparison of different forecasting models and the exploration of forecasting methods. To fill these gaps, we introduce SKIPP'D--a SKy Images and Photovoltaic Power Generation Dataset.

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