

Aerial photography of Fenglingdu Power Plant

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.

Does China have a spatial map of PV power stations?

Although some researchers released several PV power station maps, most only met a medium resolution of 30 meters [9,10]. There thus still lacks a national map of China's PV power stations with a higher spatial resolution (i.e., 10 meters) that could provide a global understanding of PV's spatial deployment patterns.

Can random forest predict PV power stations of China Parallelly on GEE?

Finally, the trained random forest model is adopted to predict PV power stations of China parallelly on GEE. Technical validation has been carefully performed across China which achieved a satisfactory accuracy over 89%.

How big are PV power plants in China?

The total area of the PV power plants in China is about 897 km², based on Dunnett's dataset. We manually modified this dataset with Google Earth's background to ensure that the PV samples are located inside the PV power plants.

Can machine learning map PV power plants across China?

This study developed a workflow, combining machine learning and visual interpretation methods with big satellite data, to map PV power plants across China. We applied a pixel-based random forest (RF) model to classify the PV power plants from composite images in 2020 with a 30 m spatial resolution on the Google Earth Engine (GEE).

How many ground-mounted PV power stations are there in China?

According to our dataset, China has a total of 2467.7 km² ground-mounted PV power stations in 2020. The top three largest provinces refer to Xinjiang, Inner Mongolia and Qinghai, whose PV area ratio are 14.92%, 12.49% and 11.26%, respectively, with a total of nearly 40% of all the PV power stations of China.

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Koichiro Otaki started taking aerial pictures of photovoltaic power stations in April 2015. At first, it was an innocent desire to capture their sheer scale and aesthetic value that motivated him ...

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Abstract Close-range aerial inspection of large-scale industrial facilities such as power plants is complex. It is characterized by a few areas suitable for safe landing, many ...

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Shanxi Ruicheng Fenglingdu Wind Farm is a 60MW onshore wind power project. It is located in Shanxi, China. According to GlobalData, who tracks and profiles over 170,000 power plants ...



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