

How to make a collection of aerial photos of photovoltaic panels

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Scientists at Mines Paris-PSL University in France have created a dataset of aerial images, segmentation masks, and installation metadata for rooftop PV systems.

To address this issue, known as distribution shift, and foster the development of PV array mapping pipelines, we propose a dataset containing aerial images, segmentation masks, and installation ...

We established a PV dataset using satellite and aerial images with spatial resolutions of 0.8, 0.3, and 0.1 m, which focus on concentrated PVs, distributed ground PVs, and fine-grained ...

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Zech, M. & Ranalli, J. Predicting PV Areas in Aerial Images with Deep Learning. In 2020 47th IEEE Photovoltaic Specialists Conference (PVSC), 0767-0774 (IEEE, 2020).

This study collected patch satellite/aerial images with 0.15 m/0.3 m/0.6 m/1.2 m spatial resolution in Heilbronn (a city in Europe) from Google, then composited all the patch images to form ...

The aim of this work is to investigate the feasibility of the first step of the proposed approach: detecting rooftop PV in satellite imagery. Towards this goal, a collection of satellite rooftop images is used to ...

The project target is to segment in aerial images of Switzerland (Geneva) the area available for the installation of rooftop photovoltaics (PV) panels, namely the area we have on roofs after excluding ...

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