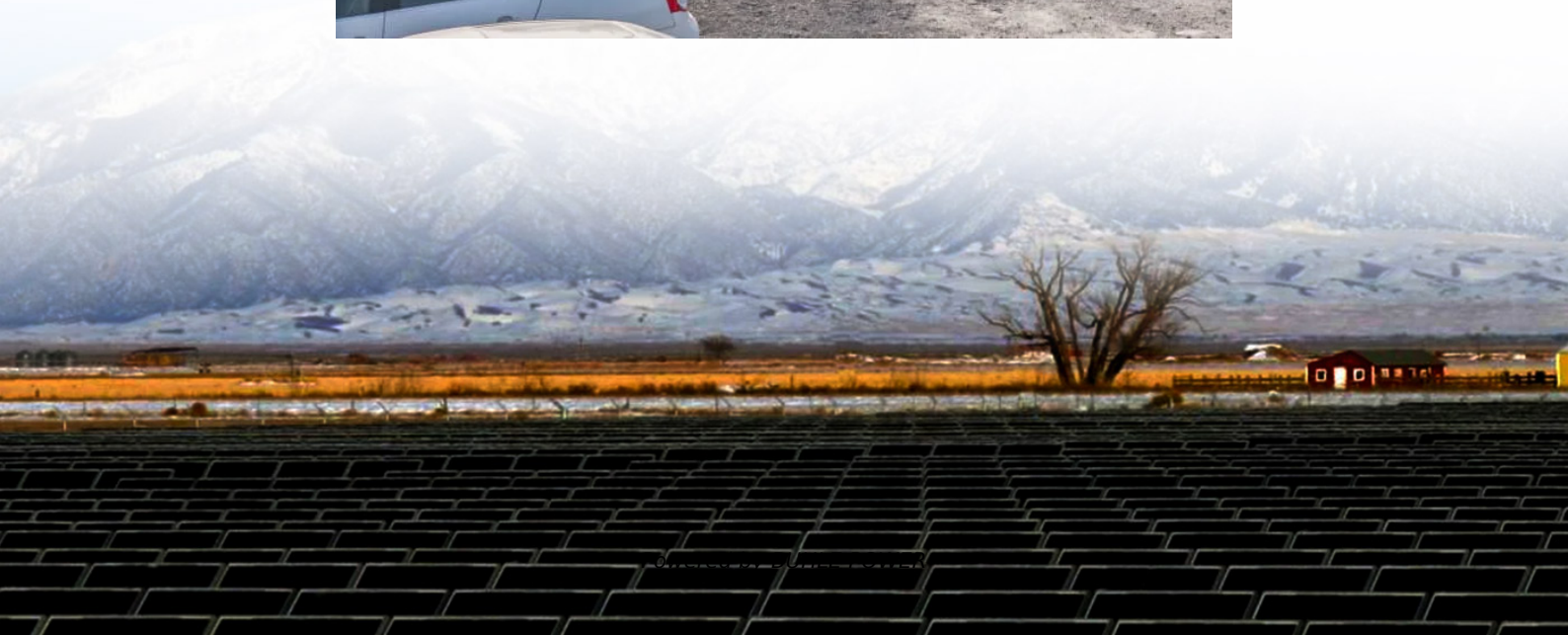


Solar Panel Annotation





Overview

What is pixel annotation Consensus (PAC)?

We set its value to 25 pixels for Google images and 12 for IGN images. It corresponds to a distance of 2.5 m. As illustrated on Fig. 2, the KDE yields a heatmap whose hotspot locates on the solar array. The maximum value of the KDE quantifies the confidence level of the annotation. We refer to it as the pixel annotation consensus (PAC).

Why are small-scale PV installations not monitored?

However, small-scale PV installations are generally invisible to transmission system operators (TSOs), meaning their generated power is not monitored 3. For TSOs, the lack of reliable rooftop PV measurements increases the flexibility needs, i.e., the means for the grid to compensate for load or supply variability 4, 5, 6, 7.

Why is double annotation important?

The double annotation allows researchers to evaluate the robustness of their approach to a shift in data provider (which affects acquisition conditions, acquisition device, and ground sampling distance) while keeping the same observed object.

Can deep convolutional networks be used for aerial imagery?

The poor generalization of deep convolutional networks to aerial imagery from new geographic locations: an empirical study with solar array detection. In 2017 IEEE Applied Imagery Pattern Recognition Workshop (AIPR), 1–8 (IEEE, 2017).



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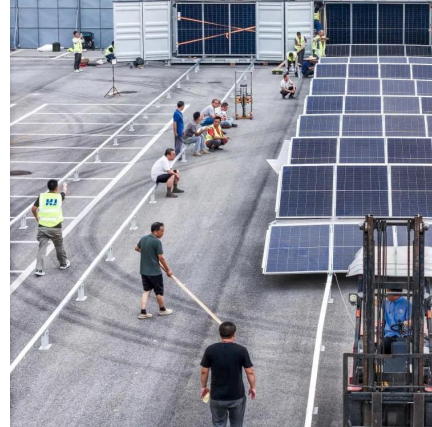


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