

Zhang Fuqiu Photovoltaic Panel



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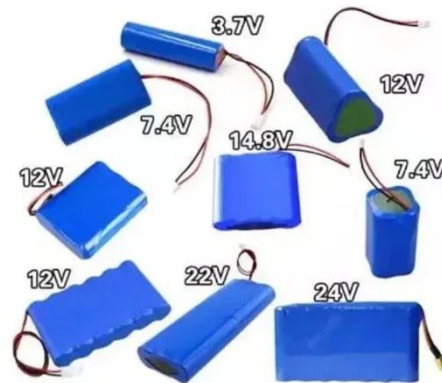


CCNUZFW/PV-Multi-Defect: PV panel surface-defect detection ...

In this study, a semantic segmentation network called HCT-Net, combined with the hybrid neural networks and the swarm intelligence optimization algorithms, is designed to segment ...

A 10-m national-scale map of ground-mounted photovoltaic power

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.



Photovoltaic Panel Defect Detection Based on Ghost Convolution ...

According to the PV panel defect detection task, the structure of YOLOv5 is improved and innovated in this paper. Firstly, the semantic depth information of PV panel images is obtained using the ...

A large-scale ultra-high-resolution

segmentation dataset augmentation

Therefore, this study focuses on the fine-grained extraction of PV panels within photovoltaic power plants, aiming to overcome the limitations of boundary-based segmentation.



(PDF) Mapping photovoltaic power plants in China using Landsat, ...

Our resultant PV panel map provides a detailed dataset for renewable layouts, ecological assessments, and the energy-related Sustainable Development Goals (SDGs).

Monitoring Sand-Dust Accumulation Levels on Photovoltaic Panels ...

Accurate monitoring and assessment of sand-dust accumulation levels are essential for optimizing cleaning schedules of photovoltaic systems in dusty regions. This article proposes an ...



Combined Hybrid Neural Networks and Swarm Intelligence ...

In this study, a semantic segmentation network called HCT-Net, combined with the hybrid neural networks and the swarm intelligence optimization



algorithms, is designed to segment ...

Accelerating the energy transition towards photovoltaic and

We optimized the placement and capacity of PV and wind power plants in our model driven by geospatial data (Supplementary Method 1), including land cover, solar radiation, wind speed, surface ...



CCNUZFW/PV-Multi-Defect: PV panel surface-defect detection dataset

PV panel surface-defect detection dataset. Contribute to CCNUZFW/PV-Multi-Defect development by creating an account on GitHub.

TransPV: Refining photovoltaic panel detection accuracy through a

To tackle the challenge of modeling PV panels with diverse structures, we propose a coupled U-Net and Vision

Transformer model named TransPV for refining PV semantic segmentation.



Global photovoltaic solar panel dataset from 2019 to 2022

Compared to existing datasets, it provides better precision and spatial detail, showing global PV growth of over 60% between 2019 and 2022, with developing countries leading the increase.

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