

Title: 3D mapping of photovoltaic panels

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Shadowmap Studio lets you visualize and analyze solar irradiance, shadow impact, and sunlight access across facades, roofs, and terrain -- all in 3D and in real time. Ideal for solar panel placement, ...

In this paper we introduce a rotated object detection framework for localizing individual solar panels with arbitrary orientation. We preprocess large-scale orthomosaics into patches which ...

LiDAR 3D Drone offers a quick and cost-effective tool for solar system deployment, from solar farm design, to solar farm mapping and maintenance.

Development of monitoring and simulation methods using 3D remote sensing data. This study addresses the growing demand for increased performance and reliability of photovoltaic (PV) ...

To provide further insights into this dilemma, a new modeling technique was developed for integrated 3D city modeling and solar potential assessment on building roofs using light detection ...

The online mapping tool uses elevation data from the Environment Agency to create a 3D model of all buildings, open spaces, trees, and hills in the 33 London boroughs to estimate the ...

Instead of procedurally placing panels, we used Google's Solar API to retrieve panel locations and orientations. We then passed this data to Three.js's InstancedMesh, ensuring that ...

Herein, a comprehensive workflow to estimate urban solar PV potential is developed where TU Delft campus is used as a case study.

Develop complete roof models in 3D and visualize your design. Identify trees, keep-outs & obstructions causing shade and develop solar heat maps for solar panel installation at every point of the roof, ...

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