

1. Introduction. Photovoltaic (PV) technology has been one of the most common types of renewable energy technologies being pursued to fulfil the increasing electricity demand, and ...

In this work, we propose an unmanned aerial vehicle (UAV) waypoint generation system that is specifically designed for aerial inspection of solar infrastructure. Our system takes into ...

Applied Sciences, 2020. In the last few decades, photovoltaic (PV) power station installations have surged across the globe. The output efficiency of these stations deteriorates with the ...

The decrease rate of battery voltage during the stable level flight of the solar-powered UAV built is also much slower than the same configuration without a solar-power system. [View Show abstract](#)

One of the primary challenges for Unmanned Aerial Vehicle (UAV) developers is to improve their endurance while in the air, as their typical flight time is limited to a few hours. ...

With the rapid development of solar photovoltaic power generation, inspection for PV plants based on UAV platforms has become prevalent. Despite the obvious advantages in efficiency, cost, ...

2020. By 2050, solar power is expected to become the world's largest source of electricity, with solar PVs power contributing 16%. This will require the total PV capacity to grow to 4600 GW, ...

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