

Can an autonomous UAV track a PV module without a GPS?

The article proposes a novel approach using an autonomous UAV with an RGB and a thermal camera for PV module tracking through segmentation and visual servoing, which does not require a GPS except for measuring the "small" relative displacement between a PV module row and the next one.

Can a UAV be used to inspect a photovoltaic plant?

For more information on the journal statistics, [click here](#). Multiple requests from the same IP address are counted as one view. Because photovoltaic (PV) plants require periodic maintenance, using unmanned aerial vehicles (UAV) for inspections can help reduce costs. Usually, the thermal and visual inspection of PV installations works as follows.

Why are UAVs important for field PV applications?

REF. UAVs provide various benefits and unique opportunities for field PV applications. This can be attributed to the latest developments in aerial technology, sensors, and control systems which support UAV and make them an appropriate tool for inspecting and monitoring PV systems [64].

Can UAV-based approaches support PV plant diagnostics?

Focus was shed on UAV-based approaches, that can support PV plant diagnostics using imaging techniques and data analytics. In this context, the essential equipment needed and the sensor requirements (parameters and resolution) for the diagnosis of failures in monitored PV systems using UAV-based approaches were outlined.

Can unmanned aerial vehicle-based approaches support PV plant diagnosis?

This study aims to give an overview of the existing approaches for PV plant diagnosis, focusing on unmanned aerial vehicle (UAV)-based approaches, that can support PV plant diagnostics using imaging techniques and data-driven analytics.

Can UAV photogrammetry be used for Autonomous inspection of PV plants?

The autonomous inspection of PV plants through UAV photogrammetry has been explored in the literature, ... The UAV is given a set of waypoints, usually arranged in such a way to cover a delimited area to ensure the required horizontal and vertical overlapping of images.

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