UAV testing of photovoltaic panels

Thus, for an accurate inspection, extracting panels and limiting the diagnosis on their surfaces show up to be essential steps in the process of defects detection. We develop in ...

In images captured using a UAV, the PV panel is centrally located. If the frame color and PV panel position criteria are satisfied, the pixel is considered to correspond to the ...

The harnessing of solar energy during the operation of an unmanned aerial vehicle(UAV) [1] provides a potential solution to combat the energy constraints. This thesis examines the ...

When detecting infrared photovoltaic panel images taken by UAV, the lightweight deep ... Section4presents the testing results and provides a comparison with existing methods. In ...

PV start, a point that identifies the start of the new PV module row, whose position is computed with respect to the end of the previous row. The upper left corner of Figure 1 shows a UAV ...

The upper left corner of Figure 1 shows a UAV moving along the PV rows in a boustrophedon way. The UAV moves from PV start to PV end along a PV midline. Then, it "jumps" to the next PV row, and it starts moving ...

Web: https://borrellipneumatica.eu