

Peer Review

Review of: "Plantation Monitoring Using Drone Images: A Dataset and Performance Review"

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These articles compare the performance of different deep learning models in tree detection and health classification. While the topic is interesting, there are several areas that need improvement. The main comments are as follows:

1. The abstract mentions that satellite data is not easily accessible for farmers, which is not a rigorous statement. The primary disadvantage of satellite data compared to UAV data lies in its lower spatial and temporal resolution, and this should be clearly articulated.
2. The first two paragraphs of the Introduction lack references, which seems inappropriate. Additionally, the literature cited on tree and crop monitoring appears to be loosely related to the current study. The authors did not specify the type of trees being studied, nor did they clarify the advantages and value of their approach for specific tree species.
3. In the "Proposed Approach" section, the authors discuss the performance and accuracy of YOLO models for tree monitoring, which would be more appropriately placed in the Results section. Furthermore, the authors should include an example image to demonstrate how the trees are detected, highlighting the strength of deep learning in this task.
4. Is Figure 2a showing a single healthy tree? It looks more like a group of trees. Figures 4–6 should be revised for improved visual clarity and presentation.

Declarations

Potential competing interests: No potential competing interests to declare.