Review of: "Comparing YOLOv8 and Mask RCNN for object segmentation in complex orchard environments"

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Potential competing interests: No potential competing interests to declare.

Review

The study conducted a comprehensive performance analysis, specifically comparing YOLOv8 and Mask R-CNN in the context of detecting not-mature fruits (apples) and branches within commercial orchards.

Given the agricultural focus of both the training and application scenarios, I recommend that the authors highlight the significance of developing such detection systems in practical agricultural settings, providing tangible examples to underscore their point.

While the research aligns with the general trend observed in similar studies over the past two years, it is essential for the authors to underscore the specific contributions of their work within the agricultural domain.

Additionally, the study compares YOLOv8, introduced in 2023, with Mask R-CNN, released in 2017. Given the substantial time gap between their respective releases, a more pertinent comparison could be drawn by incorporating evaluations against more recent networks, ensuring a more relevant benchmark for assessing performance.

Specific comment

Use meters (m) and not feet (ft), as required by the International System of Units.