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

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Dear Editor,

I am writing to convey my decision regarding the article "Comparing YOLOv8 and Mask RCNN for object segmentation in complex orchard environments". I recommend its acceptance for publication with minor revisions.

Literature Review: The current review is pertinent, but it would benefit from an expansion with more recent studies on these models in various agricultural applications.

Materials and Methods: Increasing details on data acquisition and model training, including the sizes of the training and validation datasets, is crucial.

Evaluation Metrics: The chosen metrics are appropriate. Adding visualizations or examples of the models' segmentation predictions could enhance this section.

Lighting Conditions Analysis: A detailed examination of how lighting and shadows affect model performance is recommended for guiding future improvements.

In conclusion, the article's structure is apt, yet emphasizing an expanded literature review and including more detailed data and visual examples in the materials and methods section would align the manuscript well with the publication standards of impactful scientific journals in this field.

Sincerely,

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