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.

An analysis of the work "Comparing Mask RCNN and YOLOv8 for object segmentation in complex orchard environments."For the manuscript to be accepted for publication, I do, however, suggest significant modifications. Here are my thorough remarks and recommendations:· More information regarding the details of implementation should be included.· The dataset size must be increased to train a deep neural network, and, in this case, it is lacking.· The models must be validated on a different dataset.· The usefulness of such simulations in terms of possible drawbacks and difficulties in real-world implementations should be covered in the study.· The information on the possible effects on operational efficiency within the current agricultural systems is lacking in this work and how these models may be incorporated into present systems.· To confirm the findings, a more thorough statistical analysis would be beneficial for the results section.· For better understanding, enhance the quality of the figures.

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