

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 of the paper entitled "Comparing YOLOv8 and Mask RCNN for object segmentation in complex orchard environments".

The paper was reviewed based on the following important criteria, from one to five marks:

- 1- Significance of the research: 4/5
- 2- Originality of the research: 4/5
- 3- Experimental design and quality of data: 5/5
- 4- Organization of the article: 5/5
- 5- Language problem: 5/5
- 6- Decision of the manuscript by the reviewer: Accept

Comments to the Authors (The opinions of the reviewers are not criticism, but rather advice to improve any manuscript):

- In the Abstract, it is advisable to replace the keyword "machine vision" with "computer vision" because it is the most common and brings more interested readers.
- In Section 3.3, the tool used in the object annotation process should be mentioned on the original images and how long this process took.
- In Section 3.3, how much time did it take for the two models in the learning phase?
- In Section 3.4, add an explanation of Intersection Over Union (IoU).
- Since the study is a comparison between two different techniques, it is better to add a section in the background containing the pros and cons of each technique (YOLOv8 and Mask RCNN), if possible.