

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.

The paper compares the prospects of two mainstream machine learning models in agricultural automation, which are more substantial and significant, but there are still some problems to be solved.

1 What is the size of the samples to be learned for different segmentation objects? What kind of impact does this have on the accuracy of the model?

2 At present, scholars have different methods to improve YOLOv8 and Mask RCNN to enhance the recognition efficiency and accuracy; how to consider and compare?

3 YOLOv8 and Mask RCNN have their own advantages and disadvantages; in different lighting, samples, objects, etc., will appear different performance. How to ensure that YOLOv8 in the segmentation process is better?

4 The conclusion is debatable.

5 Some formatting issues need attention, such as Figure 2 is not clear, formula numbering, etc.

6 The abstract is not concise enough; the body suggests a more complementary comparison process.