

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.

abstract

The information is good and well presented, but it can be condensed. Put a max limit of 250 words.

keywords

I suggest removing "machine learning," since the techniques are related to deep learning.

introduction

It is very hard to affirm that you read every work on this subject and included it in the table. I would add the word "notable" before "studies."

Figure 1 and 2 can be reworked. Figure 1, if not retrieved from another project, should indicate that it was made by the authors, and figure 2 is hard to read.

data preparation

You should add the pixel resolution of the images.

These metrics are calculated as follows:

[Math Processing Error](Equation 1) Precision = $\frac{TP}{TP + FP}$ *[Math Processing Error](Equation*

2) Recall = $\frac{TP}{TP + FN}$ *[Math Processing Error](Equation 3) $\frac{TP}{TP + FP + FN} = \frac{\text{Area Overlap}}{\text{Area$*

Union = $\frac{TP + FP + FN}{TP + FP + FN + TN}$ *[Math Processing Error][Math Processing Error]*

missing equation

Figures 10-12 have very small texts.

Conclusion lacks direction for future works.

Good overall text.

