

Find junctions in rice inflorescence using a classification algorithm

2024

I Introduction

II Methodology

1 Crack detection algorithm

Run the available crack detection algorithms (8 models) to see which model is suitable to identify the best rice ears.

2 Skeleton algorithm

Check out the results on existing skeleton algorithms and new algorithms (2 algorithms).

3 Classification algorithm

Use existing, previously used algorithms (8 algorithms) to test the results to see which clustering algorithm finds the correct junctions.

III Results

- Label junctions on a number of images for evaluation results.
- Evaluate the model both quantitatively and qualitatively.
- Price evaluation considers which combination gives the best recognition model.

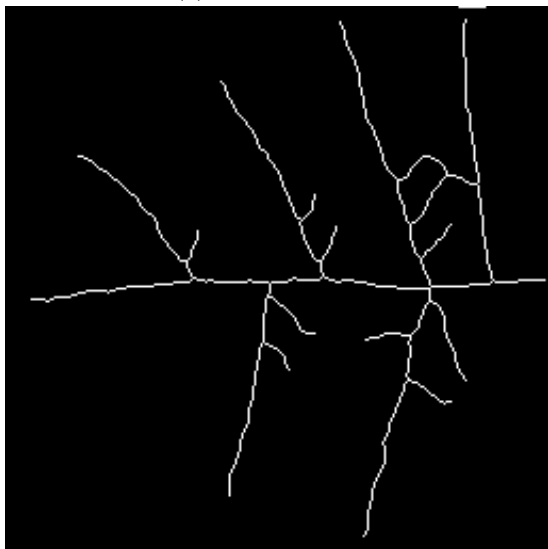
References



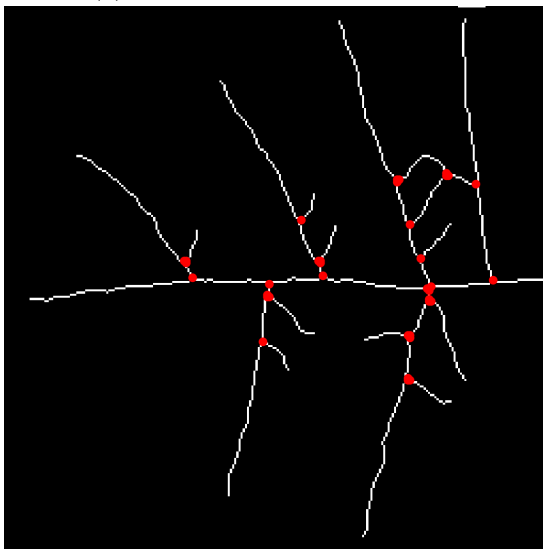
(a) Original image.



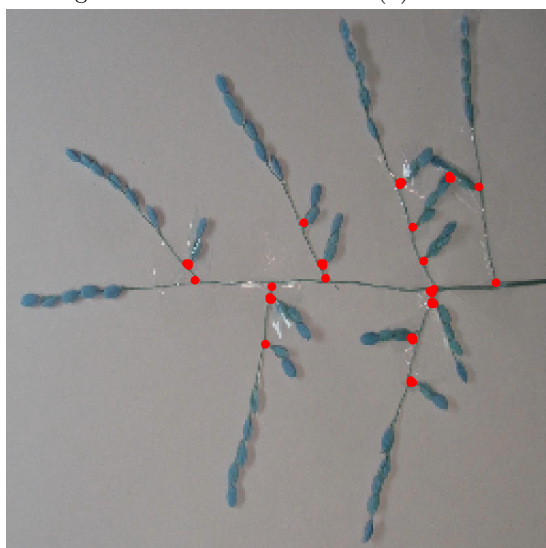
(b) Predict crack detection model.



(c) Skeleton image.



(d) skeleton image with junction.



(e) original image with junction.

Figure 1: .