



CrackSense: Predicting Grape Cracks with Hyperspectral, Thermal, & RGB Imagin

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Abstract:

Grape cracking occurs after ripening begins and can significantly reduce crop yield and quality.

Cracking leads to rapid sour rot, resulting in direct financial losses due to decreased marketability and increased waste.

Sour rot spreads quickly through the vineyard by yeasts, bacteria, and flies, causing further economic damage as more clusters become infected.

This phenomenon also affects other major fruits such as cherry, apple, tomato, and pomegranate, posing a serious challenge to growers and the agricultural industry.

Bio:

Yovel Gani is an M.Sc. student at the School of Industrial Engineering and Smart Systems, Tel Aviv University. He has industry experience in the data field and practical expertise in data analysis.