

Application of deep learning technology to improve the quality of disease classification on tea leaves

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Abstract: The thesis studies the automation of disease diagnosis for tea plants using the EfficientNet model. The author built a real-world image dataset of common diseases such as bud rot, brown spot, and green leafhopper. Through data augmentation techniques and optimization of convolutional neural networks, the model achieves high accuracy in classifying field images. This application aims to assist farmers in early disease detection, optimize the use of plant protection chemicals, and improve crop yield.

Keywords: Tea leaf disease, Image classification, EfficientNet

References

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