

Rice pest and disease identification from image data using deep learning models

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Abstract: In practice, early and accurate detection of diseases on rice plants is essential to increase crop yield. This study focuses on building an automatic identification system by applying deep learning techniques to classify disease images on rice plants from real-world data. Through theoretical research combined with experimental implementation, the objective of this study is to provide a fast and effective support solution for farmers in managing rice diseases. This not only helps improve production yield but also contributes to environmental protection and enhances sustainability in farming.

Keywords: Deep learning, image recognition, rice plant, disease management