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Diagnosing Agricultural Crop Leaf Diseases using Digital Image Processing Techniques: A Review

Sunilkumar H.R.
Department of CS&E
PES Institute of Technology and Management,
Shivamogga, Karnataka, India
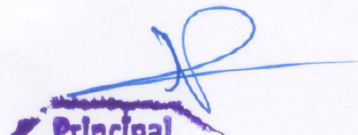sunilhr@pestrust.edu.in

Poornima K.M.
Department of CS&E
JNN College of Engineering,
Shivamogga, Karnataka, India
kmpoornima@jnnce.ac.in

Abstract— To achieve better yield and quality in agricultural products, it is good to diagnose crop diseases at very initial levels. Pathogens like fungi, bacteria, viruses and adverse environment are the main reasons for agricultural crop diseases. For sustainable agriculture continuous observation of crops from early stage may play a very prominent role. To do so tremendous amount of manual work needed and expert level knowledge in the plant diseases is required and in mean time it consumes excessive processing time. Hence fast, less expensive and accurate method at machine level detection of diseases is need of the day. A detailed discussion on various diagnosing techniques for agricultural crop leaf diseases using digital image processing methods along with their advantages and disadvantages is presented in the paper. Finally the paper suggests some reasonable approaches to achieve better results.

Keywords— Digital Image Processing, Agricultural Crops, Diagnose