Detection of Plant Leaf Disease Employing Image Processing and Gaussian Smoothing Approach

Abstract

A study of plant observation is critical to regulate the unfold of illness in plants, but its value could be higher and as a result, the producers of agricultural products often skip important preventive procedures to keep their production cost at low value. The detection of plant leaf is a vital factor to forestall serious natural event. Most plant diseases are caused by bacteria, fungi, and viruses. An automatic detection of plant disease is a necessary analytical topic. Computer vision techniques are used to uncover the affected spots from the image through an image processing technique capable of recognizing the plant lesion options is delineated in this paper. The achieved accuracy of the overall system is 90.96%, in line with the experimental results.

References

2. N. Petrellis, “Plant Disease Diagnosis Based on Image Processing, Appropriate for Mobile
Detection of Plant Leaf Disease Employing Image Processing and Gaussian Smoothing Approach


Index Terms

Computer Science

Image Processing
Keywords

Digital-Pictures, Matlab, Image-Processing, Segmentation, Plant-Leaf-Diseases, agricultural-production