

Plants health monitoring and prediction for precision horticulture

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Abstract

The hydroponic farming industry is growing rapidly, and it can solve major world food crisis problems. Health monitoring and diseases identification of the plant is very important for agriculture. Monitoring of health and disease on plant plays an important role in successful cultivation of crops in the farm. Identification of the plant diseases is the key to preventing the losses in the yield and quantity of the agricultural product. It is very difficult to monitor the plant diseases manually. Some diseases spread so rapidly they can affect an entire plant and crop. Early detection of a diseases can prevent an entire crop from harm and attention a farmer would need to place on their system. The proposed system is capable of detecting the disease at the earlier stage as soon as it occurs on the leaf, hence saving the loss and reducing the dependency on the expert to a certain extent is possible. The aim of this study is to design, implement and evaluate an image processing-based software solution for automatic detection and classification of plant leaf diseases. This technology helps the farmer to identify what type of diseases that the plant is being affected. The image has been processed in MATLAB and the status of the leaf has been identified with the help of neural network classification. Then the environment circumstances such as temperature, humidity and moisture has been monitored. After the image has been processed in the software it sends SMS to the user by using Global System for Mobile Communication (GSM). The SMS contains leaf status, particular solution and environmental conditions.

Keywords: Image processing; Disease detection; Data comparison; Ajas big data analysis; Local language translation.

1. Introduction

Hydroponic plants need nutrient solution for growing. The plants can't get sufficient nutrition which will have impact on growth of that plants. Automatic water controlling system to avoid the water sacristy problems.

The process of plant growth is a very important study for the mechanism of crop formation and getting more yield. Decease detection in plants plays an important role in agricultural field. Plant treatment requires observation on plant growth. The study of the plant diseases means study of visually observable pattern seen on the plant. Detection and recognition of leaves diseases are likely to give better performance and can provide clues to treat the diseases in its early stages. Early detection of diseases could yield more and reduce the loss. Farmers can take preventive measures. The plant leaf for the detection of disease is considered which shows the disease symptoms. The image processing technique that detects the kind of the disease the leaf is affected with and analyze the different diseases among the leaves.

2. Image Processing

End-to-end hydroponic plant health traceability system is very useful for monitoring the crops. Farmers can use camera and various types of sensors such as temperature, humidity, gas for health monitoring the plants. The software

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