

PROJECT

Submitted by : Nandhini P S

Topic: Weed detection from agriculture crop images

Guide: Ravishankar S

About project:

One of the primary objectives in the field of agriculture domain is weed detection. Weeds are undesirable plants in agriculture field which causing losses to crop yields. The need of detection and removal of weed in the field is important in agriculture industry. In olden days weed detection was done by inspecting each and every place in the field by employing some men participating for that intention. Later with the improvement in technology people started using herbicides to take weeds. But to identify the weed still require physical power in many parts of the world. After that few methods of weed detection without using human intervention were discovered. They were incapable to reach public due to the lack of accuracy.

Detecting and expunging weeds in the initial stages of crop growth with machine learning technique can minimize the usage of herbicides and maximize the crop yield for the farmers. The objective of this work is to use Convolutional Neural Networks to perform weed detection in crop images. The proposed method deals with a weed detection system based on YOLO neural network.

Publications

Paper - A Study on Weed Detection Techniques

Conference - IEEE

Journal - I2CT 2019 Pune

Status - Accepted