Abstract

Agriculture is very labour intensive field and only field where the robot is not used presently.
Now-a-days many industries are trying to reduce this human labour by making machines in terms of robot. Vision-based row guidance of robot is done by a technique named as pose (having combination of image and its angle) helps to guide a robot in a row field. So thus the platform which we have implemented helps the robot to use technique named as pose for its row guidance. Here we are designing autonomous intelligent farming robot which indicates the plant health by observing the colour of their leaves in terms of image processing which is done by raspberry pi and some limitation to plant height. The robot also notes the surrounding environmental conditions of the plant in terms of temperature and humidity so that the robot will decide about health of plant and will display on the LCD.

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Index Terms

Computer Science

Artificial Intelligence
Keywords
Raspberry Pi  Pic Microcontroller  Agriculture Image Processing  Crop Leaf.