

GREEN LEAF DETECTION USING RASPBERRY PI

ABSTRACT

During summers, most people are too lazy to water the potted plants on their rooftop gardens every day. Explained in this section is a simple and exciting [automatic plant watering system](#) that you can build yourself in just a few hours. It is an Raspberry and raspberry pi based [automatic plant watering system](#) that uses a IR Sensor. Population increases, climate change, degradation and loss of arable land, and the increasing appearance of new pests and diseases threaten the world's food supply . Understanding how plants respond to environmental and genetic perturbations is essential to accelerating the improvement of crops and agriculture .High-throughput phenotyping provides an unprecedented opportunity to study the physiological, developmental, and molecular mechanisms that govern the dynamic behavior of plants . However, existing systems that allow highly automated collection of basic phenotypic data for small numbers of plants in the greenhouse fall far short of the need to examine and characterize thousands of plants under real world conditions. Building systems that can collect multi-modal, multi-character data in real time in the field requires integrating plant biology and crop science with robotic vision and computer engineering. These systems must be accurate and reliable, and should provide richer information than the current methods available for automated greenhouse or manual field phenotyping. By doing so, they will help us to link plant genotypes as well as the molecular and eco-physiological responses with the expression of specific phenotypes in response to the growing conditions

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