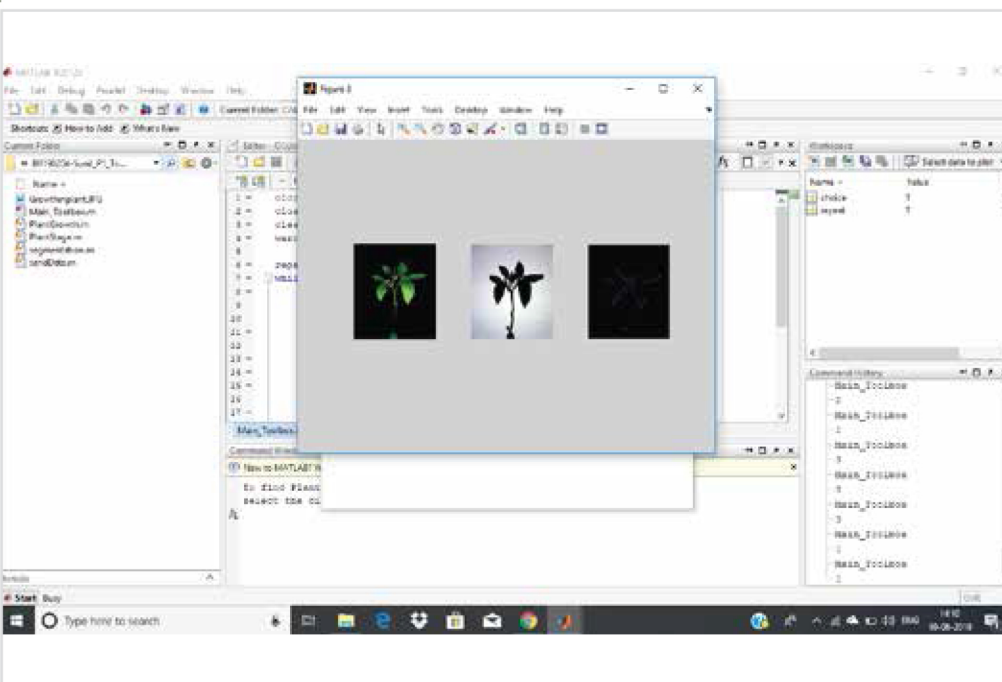


The Internet of Things is a network of physical devices (electronics, software, sensors and connectivity — including vehicles, building and other objects) which enable collection and exchange of data.

Today, IoT is remodelling farming, allowing farmers to use a wide range of techniques to gather information regarding conditions such as weather, humidity, soil temperature and fertility. Crop monitoring enables detection of various crop stages (germination, flowering, fruiting) using image processing technique. Farm conditions are monitored by wireless sensor networks and micro controllers are used to control and automate.

The proposed system monitors crop fields using sensors (moisture from soil, temperature, humidity, light conditions) during germination, flowering, fruiting stages. Automated irrigation system snaps into action when the field's humidity falls below a pre-set value. This is done through wireless transmission and the sensor data is sent to web server database. In the image processing section, the image is initially taken from the camera and further processed by "K means clustering" for the image segmentation.



76 PROJECT

IOT BASED CROP MONITORING SYSTEM

Suchith B R
ECE

Uday Kumar G
ECE