Abstract

India is second largest country in production of cotton. But cotton production face problem of harvesting which is currently done by skilled human labour. Now actual problem is that no one wants to work in farm so one should always think about alternative way of harvesting cotton. One approach to solve this problem is by taking help from intelligent machine. Proposed work focused on introduction of image processing into cotton harvesting. Following proposed work contain one system which is combination of motion control and machine vision system by which cotton harvesting is made possible. Machine vision system takes real time image of cotton plant and processes it to find out cotton ball in it followed by mechanical arm which pick cotton from plant. System consider all the parameter like lighting, background, leaves and other surrounding objects to the cotton plants. System equip with various sensor for movement along the farm. Attempt is to make one miniature model which work exactly like proposed system. This system can also use to harvest different fruits by making little change in image processing algorithm.


Index Terms

Computer Science

Information Sciences

Keywords
Cotton Recognition, image segmentation, cotton harvesting robot, Cotton Picking Machine, Smart Harvester.