

ABSTRACT

Kale is a plant that includes vegetables and is grown as food. Kale plants are popular with the community because they have enough nutrients for the body. The research has purpose to build an application which can detect the quality of water spinach base on desktop. This application program is made by Visual Studio 2010 and it is added EmguCV library to process the image. This application can convert RGB image into cropping image to be extracted in hue saturation intensity pixel, then pixel image is made the average base on training data with testing data, and then it will show accuracy level base on test data 89.23%.

Keywords : Ipomoea, Image processing, EmguCV, Hue Saturation Intensity