Abstract

In this final project is talking about face detection in color image by using skin color information and support vector machine classification method. In face detection process, the first thing to do is doing the skin color segmentation and then use binary processing, so the candidates can be gotten. Then do the detection by using SVM. To detect the face, datasets that contain many faces and non-faces are given as input to SVM then with testing data, SVM can classify between face and non-face object. Edge detection method in face detection problem used for help separate face object.

From the experiment result in face detection problem, RGB color model give better result in accuracy than HSV color model.

Key Word : Face Detection, Support Vector Machines, Edge Detection