

ABSTRACT

The face is part of the front of the head human organ consisting of hair, forehead, eyelashes, up to his chin. Facial expressions usually indicate someone suitable environmental conditions around it. The face can be a person's identity because no similar faces even though it was a twin. This makes the face can be the basis of detection systems or security.

In this final project created a facial recognition system that utilizes as input. The face detection system implements a Java program on Miniboard or commonly called the single board. How it works the face detection system that is processing some images that have been obtained from the camera in realtime which is already connected to the miniboard.

The face detection system can be used to collect traffic data on the company's marketing billboard, presence systems, security systems, assessment, and others. From the test results, it can be concluded that the tool used to produce the performance of up to 94% on Raspberry and 90% in Odroid.

Keywords: java, Miniboard, windows, single board