Abstract

In the field of research on computer vision, face recognition processing is needed before the stage of early stages of face recognition process it self. The process is the process of face detection. But in general face image obtained has a size and shape of the face varies, has a background that is not uniform, and varying lighting conditions or uncertainties that face detection becomes more difficult to detect.

In this final, face detection, built with the method developed by Viola Jones. And before the system can work to detect the face it is necessary to face training. Basic working system of training and the detection method itself consists of four major components, frameworks or rectangle feature, Integral Image, Learning Classification, and Classification Cascade.

The results of this thesis is a face detection system that can be used in the search process facial images in an image and can analyze how accurate is face detection system using the method as the detection of viola jones face image.

Keywords: *Fitur rectangle, Integral Image, Learning Classification, Cascade Classification, Viola jones*