

Abstract

Nowadays, there are many applications using image processing in the field of biometric. As a usual, these image processing techniques use for the detection and recognition process through characteristics that only exist naturally in the human body, for example, face recognition. Various studies about face recognition have been done before. One of them used SVM-based image with 84.28% of accuracy.

In this final project, It will be built a system that can recognize and count the number of recognizable faces, with a video-based input. The data obtained from the recording process so as to classify the name of each face by utilizing Viola Jones as a detection method and SVM (Support Vector Machine) as a recognition method.

With the implementation of those methods, the system can recognize the face names, which are grouped into classes. From the test results of the system obtained 21.79% accuracy

Keyword: Video, Face, SVM, Viola Jones