ABSTRACT

Image processing technology is growing lately. Many image processing applications are very useful for the purposes of detection, security, health and others, so many areas that use image processing technology as the basic technology to help solve problems associated with that field. Facial identification is very important and very necessary, especially in the security field to determine a person's identity because a lot of information that can be obtained from the identification of a person's face.

In the Final Project was designed a system capable of detecting age group and gender of the face based on facial contour. The system is designed using a thresholding method to the classification obtained from the extraction of facial features in images. For the facial features are extracted using only geometric features include an important component of the distance between facial features and wrinkles on the forehead, corners of the eyes and cheek area.

Based on the results of the research has been done on 49 images, which are designed system has been able to detect age and gender of the input face image with an accuracy of age group is 71,42% and for gender is 82,5%.

Keywords: Thresholding, feature geometry, feature wrinkles, facial contours