

ABSTRACT

The introduction of gender is necessary to classify between genders male and female. Gender detection process is implemented on a feedback system advertising. To determine the number of his attendance of men and women who watched the advertisement campaign, the company does not need to count it manually. The company simply by observing in the office computer screen would know the number of men and women through facial recognition.

In this final project will be built a system that can detect human gender through facial recognition. Working system of this software is to take offline face image of the camera device. The images that have been analyzed by this system and getting whether the face image indicates the object of male or female.

Classification method used is Back Propagation neural network and feature extraction methods Principal Component Analysis (PCA). From result of testing that has been done, it can be conclude that the results of doing classification process with two hidden layer and produce a level of accuracy up to 85 % from 40 face image data.

Keyword: face recognition, PCA, JST, identification