ABSTRACT

Every human has own characteristics in the face which distinguish with the other humans. So that, the face has an important role in uncovering a person's identity. Along with age, changes will be occur on the shape of face. One method of describing the changes in shape of the face at different age is the Cranio-Facial Growth methods that predict the development of human faces based on growth parameters (k).

This final project about the use of Cranio-Facial Growth method in predicting facial image and Eigenface method in face recognition. Which becomes the input for recognition process is 68 landmarks on the face in accordance with the concept of Face Anthropometry.

From the test results showed that, as greater the input image SNR when deciding on the growth parameters (k) as greater accuracy. While the number of eigenface is used proportional to the accuracy of the system and the system reaches a maximum accuracy when the number of eigenface more than 7 with a value of 56% accuracy in predicting and recognizing facial images at different age.

Keywords: *Cranio-Facial Growth*, *Eigenface*, *Face Anthropometry*