ABSTRACT

Face recognition is one of techniques of biometric identification technology using an individual's face as the main parameter. Each human face has different characteristics. Currently, the face recognition system has been applied in a number of fields, such as forensic science, psychology, security, and so on. This face recognition system is expected to provide much contribution to the development of technology in various area of life. Face recognition system generally consists of three phase, there are Face Detection, Facial Features Extraction, and the Face Recognition.

This final project focuses on phase of facial recognition systems to processing the classification using ANFIS as the classification method. It's Expected by using a hybrid method is capable of providing a high rate of accuracy.

Based on the result of face recognition system testing using data fisherface has an accuracy rate of 73%.

Keyword : *Face recognition, feature exctraction, pattern matching, Fisherface, Fuzzy, Artificial Neural Network, ANFIS.*