

ABSTRACT

Biometric is one technique that can identify a person based on the physiological and characteristics. Various biometric techniques are used to prove one's identity. In addition to prove one's identity, biometrics can also be used as a method of payment. Biometric technology has several advantages such as not easily lost, can not be falsified, and not easily damaged.

Methods to improve security in biometric technology include using multi-modal authentication. Multi-modal authentication is believed to increase security due to repeated authentication but using different sources. The system will verify if the multi-modal used matches the data residing in the database.

In this final project, the biometric face system is designed using Raspberry Pi, which will be combined with other multi-modal using score fusion. Each person's face sample will be taken using Pi Camera and processed to find what information can be the parameter of individual differences. The final result of this Final Project research shows the accuracy and decision making using Score Fusion.

Keyword: Biometric, Image Processing, Multi-modal, Score Fusion.