ABSTRACT

Ear biometric technology is another alternative way to recognize that use

physical characteristic of human. That application used to identify someone. Ear

biometric has many advantage if compared with the face recognition, such as has

uniform colour distribution and doesn't change that caused by face expression and

age. Identification system can work fast and more efficient because shape of ear is

smaller than face.

Geometric method is used to extract unique features from concha. This

method is based on radius analysis concha toward a centroid. The feature extraction

process will obtain feature vector that used for identification process. The

performance of system is measured with accuracy level for matching the testing data

toward the training data.

Some parameter value is regulated to obtain a optimal result. The result of

testing system has analyzed and evaluated until obtained the system with high

accuracy level.

keywords

biometric, contour of concha, centroid, geometric method