

ABSTRACT

Biometrics is a science concerning with the methods for identifying biological especially human symptoms which is based on natural characteristics of human. In this research, characteristics investigated is iris texture. Every iris has detail and unique texture, right and left irises are different. Iris remains unchanged and stable over decades, so that it can be used for identification system.

In this research, processes of identification iris are data acquisition, preprocessing, feature extraction, and classification. Algorithm used for extracting textural feature of iris is Gabor wavelet filter and neural network Learning Vector Quantization (LVQ) which is used to classify the textural feature of iris.

Experiment has been simulated with Matlab 7.0 software. Classification for recognizing feature vector value of iris has been found from the recognized value or total percentage of feature vector iris value to the definite vector target. Recognized percentage from the best net and acquisition is 87,5 % . the accuracy of iris identification program is 100 % .

Keyword : *Iris Identification, Preprocessing 2D Gabor wavelet filter, Neural Network Learning Vector Quantization (LVQ)*

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