

Abstract

Iris is the internal organ of human's eyes which has high uniqueness. The main of iris for recognizing process is because iris lies in the eyes and protected by the eyelid so the uniqueness is robust for the long time. Expanding variety of automatization technology, iris recognition can be a good choice.

This final project is built to be a recognizing system based on iris using 2D Gabor Wavelet and Radial Basis Function Artificial Neural Network. The Data used for recognizing comes from CASIA 1.0 eye image database. From the experiment done in this final project, the highest accurattion for iris recognizing is 72,5 %. The False Accepted Rate (FAR) is 4.29% and the False Rejected Rate (FRR) is 15.71%

Keyword : *Iris recognition, Radial Basis Function Artificial Neural Network, 2D Gabor Wavelet, CASIA 1.0*