Abstract

Iris recognition is one of the challenging problems in human computer interaction. An automated iris recognition system requires an efficient method for classification of iris region in the face sequence, extraction of iris features, and construction of classification model. In recent years, Neural Networks (NN) has demonstrated excellent performance in a variety of classification problems. In this paper, we have used a simple 2dimensional discrete wavelet transform (DWT) representation which captures the small differences in the image that is desired for the current applications. The DWT is used to generate feature images from individual wavelet sub bands. The results of our studies show that, the system gives about 90.00% recognition rate.

References

- Daugman, J. G., "High Confidence Visual Recognition of Persons by a Test of
- University of Bath, U. K. Iris Image Database, [http://www.bath.ac.uk/eleceng/pages/sipg/irisweb].

Index Terms

Computer Science Artificial Intelligence

Keywords

Iris Recognition Discrete wavelet transform Classification model Neural Networks

Pattern Recognition
Machine Learning