Abstract

The security system nowadays using biometrics traits is a confident and reliable of some biometrics system. The reason of that is uniqueness and permanents of those traits. In this paper the Iris recognition system is covering step by steps started namely Acquisition stage, preprocessing which includes the segmentation, pupil boundary detect and Normalization the next stage is feature extraction which used the wavelet decomposition methods, the finally the matching stage is perform with help of hamming distance measure, then the results are show in different dataset size of training and testing sets finally the evaluation of the system conducted based on FAR, FRR and EER of the system.

References

2. Biometrics identification:
Iris Feature Extraction and Matching by using Wavelet Decomposition and Hamming Distance


4. J. G. Daugman, 1993 “high confidence visual recognition of persons by a test of statistical independence”, IEEE transactions on pattern analysis and machine intelligence, 15 (11), 1148-1160

5. L. Masek, 2003, “Recognition of Human Iris Patterns for Biometric Identification”, M.S. Dissertation, the University of Western Australia


Index Terms

Computer Science

Image Processing
Keywords

Iris Recognition, preprocessing, Feature Extraction, Matching, Wavelet Decomposition, Hamming Distance.