Abstract

A biometric system which relies only on a single biometric identifier in making a personal identification is often not able to meet the desired performance requirement. The basic aim of a biometric identify system is to make distinction automatically between subjects in a reliable and dependable way, according to a specific-target application. Multimodal Biometric systems aim to fuse two or more physical or behavioral traits to provide optimal False Acceptance Rate (FAR) and False Rejection Rate (FRR), thus improving system accuracy and dependability. In an innovative multimodal biometric identify system based on Iris and fingerprint traits are proposed. Feature is extracted from preprocessed images of Iris and Fingerprint. These features of a query image are compared with those of a database image to obtain matching score and this score is fuse the final score is use to declare the person is accepted or rejected.

References

Iris and Fingerprint Fusion for Biometric Identification

- S. C. Dass, K. Nandakumar, & A. K. Jain, A Principled Approach to Score Level Fusion in Multimodal Biometric
Iris and Fingerprint Fusion for Biometric Identification

- Image Systems Engineering Program, Stanford University. Student project By Thomas Yeo, Wee Peng Tay, Ying Yu Tai.

Index Terms

Computer Science

Security

Keywords

Iris  Fingerprint  morphological operators  Haar wavelet  Hamming distance
Minutia matcher

Sum rule and Fusion.