Abstract

Biometric authentication plays a major role in security as these are by nature unique for every human. But the security is compromised when the pattern matching system is not accurate. Authentication system like fingerprint recognition is most commonly used biometric authentication system. In this paper survey is done on fingerprint recognition techniques. And different approaches are studied in terms of accuracy and performance. As fingerprint may also contain noise; so image de-noising techniques are also studied Cross ridge frequency analysis of fingerprint images is performed by means of statistical measures and weighted mean phase is calculated. These different features along with ridge reliability or ridge centre frequency are given as inputs to a fuzzy c-means classifier.

References

Survey on Fingerprint Recognition System using Image Preprocessing and De-noising

Cryptology 2004 Dec 2 (pp. 467-477).


**Index Terms**

Computer Science  
Image Processing

**Keywords**

PSNR, de-noising, Biometric authentication, STFT, SWT, DIP