Abstract

Biometric system is a very important recognition system which is used for individual verification and identification. Various types of biometric traits are used in today’s world, in which some are used for commercial purpose and few used for verification purpose. Existing authentication techniques are suffer from different errors like mismatch image, spoofing, falsification in the data, to solve this errors the combination of Electrocardiography(ECG) and fingerprint multimodal is introduced. This proposed modal produces effective recognition system when compared to individual recognition system. The proposed multimodal recognition system provides optimum results compared to the individual recognition system which yields
better results for authentication compared to the Existing system.

References

- Ming Li, Shrikanth Narayanan, "Robust ECG Biometrics by Fusing Temporal and Cepstral Information", International Conference on Pattern Recognition, 1051-4651/10 © 2010 IEEE.
- Nahid Ghofrani, Reza Bostani, "Reliable Features for an ECG-based Biometric System", Proceedings of the 17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010, 978-1-4244-7484-4/10 ©2010 IEEE.
- FuFu Zeng, Kuo-Kun Tseng, Ming Zhao, Jeng-Shyang Pan, Huang-Nan Huang, Chih-Yu Hsu, Shuo-Tsung Chen, "Biometric Electrocardiogram Card for Access Control System", Fifth International Conference on Genetic and Evolutionary Computing, IEEE, 2011.

Index Terms

Computer Science  Security

Keywords

Electrocardiogram (ECG)  Fingerprint  Authentication  Multimodal.