Abstract

Single biometric systems suffer from many challenges such as noisy data, non-universality and spoof attacks. Multimodal biometric systems can solve these limitations effectively by using two or more individual modalities. In this paper fusion of fingerprint, iris and face traits are used at score level in order to improve the accuracy of the system. Scores which obtained from the classifiers are normalized first using min-max normalization. Then sum, product and weighted sum rules are used to get fusion. Experimental results show that multimodal biometric systems outperform unimodal biometric systems and weighted sum rule gives the best results comparing with sum or product method.
- L Latha and S Thangasamy. 2010. A robust person authentication system based on score level fusion of left and right irises and retinal features. Procedia Computer Science, 2:111–120.


- Xianbiao Qi, Yu Qiao, Chun-Guang Li, and Jun Guo. 2013 Multi-scale joint encoding of local binary patterns for texture and material classification.


**Index Terms**

Computer Science

Security
Keywords
Fusion  multimodal  fingerprint recognition  iris recognition  face recognition.