Abstract

Most real-life biometric systems are still unimodal. Unimodal biometric systems perform person recognition based on a single source of biometric information. Such systems are often affected by some problems such as noisy sensor data, nonuniversality and spoof attacks. Multibiometrics overcomes these problems. Multibiometric systems represent the fusion of two or more unimodal biometric systems. Such systems are expected to be more reliable due to the presence of multiple independent pieces of evidence. In this paper, we present a multibiometric recognition system using three types of biometrics Iris, Palmprint and Finger_Knuckle Print. The fusion is applied at the matching-score level. The experimental results showed that the designed system achieves an excellent recognition rate with total Equal Error Rate EER zero percent.
- L. Ma, T. Tan, Y. Wang and D. Zhang, "Efficient Iris Recognition by Characterizing Key Local Variations," IEEE Transactions on Image Processing, Vol. 13,
No. 6, June 2004, pp739-750.

Index Terms
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Keywords
Finger_Knuckle   Biometric Fusion   Iris   Matching score   Multibiometrics
Palmprint