Abstract

A biometric system is important to a pattern recognition system that operates by acquiring biometric data from an individual, extracting a feature set from the acquired data, and comparing this feature set against the template set in the database. Multimodal biometric systems are becoming more popular; Fingerprint recognition is the most popular physiological characteristic used to identify a person in biometric systems, because of feasibility, permanence, distinctiveness, reliability, accuracy, and acceptability. Signature recognition is the most popular behavioral characteristic used in biometric systems. Thus, we believe that the combination of these two methods will have a reliable and accurate result. We propose a weighted fusion scheme, which transforms the scores into a common range, assigned weights and combines them, giving the final fused score.


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Index Terms

Computer Science  Security

Keywords

Fingerprint, Signature, fusion image, ICP algorithm, Euclidean distance Fingerprint, Signature, fusion image, ICP algorithm, Euclidean distance.