Review Analysis of Properties for an Ideal Secure Biometric Template Scheme

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Abstract: With new advances in technologies, biometrics is becoming emerging technology for verification and authentication of individuals. However, the storage of biometric templates still needs necessary attention since it poses major threats to user privacy and system security. To mitigate this problem, various biometric protection techniques have been proposed. Most of these schemes aim to satisfy diversity, revocability, security and performance properties, as requirements for ideal secured biometric template storage. Conventionally, priority is given to robustness of biometric system in terms of its accuracy, and high performance with regards to matching and recognition rate. Little attention is payed to user privacy and system security. In this paper, existing work in biometric template protection schemes are reviewed, analysed, and compared with reference to properties of an ideal biometric secured template system. The question of properties needed for a complete and ideal biometric secured template system is beyond the scope of this research.