Robust Security Model for Biometric Template Protection Using Chaos Phenomenon

Abstract

Modern biometric technologies claim to provide alternative solution to traditional authentication processes. Even though there are various advantages of biometric process, it is vulnerable to attacks which can decline its security. Different schemes are proposed to protect from different attacks. This paper presents biometric process, attacks on biometric process, study of different protection techniques used to protect against different attacks. The authors have designed protection model of bio-hashing technique using Session key. This key is generated using Chaos phenomenon.

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Index Terms

Computer Science

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Key words

Security biometric

process

biometric template protection schemes

chaos phenomenon