Hiding Fingerprint in Face using Scattered LSB Embedding Steganographic Technique for Smart card based Authentication System

Abstract

Smart card technology is currently recognized as the most appropriate technology for identity applications that must meet critical security requirements. Smart cards provide the secure, convenient and cost-effective ID technology that stores the enrolled biometric template and compares it to the "live" biometric template. In order to protect biometric data, Steganography
using scattered Least Significant Bit (LSB) embedding algorithm is suggested, which embeds bits in the LSB position in a non linear fashion inside an image. As an improvement, prior to embedding, the bits are encrypted and then embedded. Steganography and Cryptography coined together will aid to protect the biometric data and thereby provide secrecy and avoid loss of privacy.

Reference


Index Terms

Computer Science Security
Key words
Hiding Fingerprint  
LSB Steganography
Authentication