

Gröbner Bases Method for Biometric Traits Identification and Encryption

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Abstract

Biometric identification systems are principally related to the information security as well as data protection and encryption. The paper proposes a method to integrate biometrics data encryption and authentication into error correction techniques. The normal methods of biometric templates matching are replaced by a more powerful and high quality identification approach based on Gröbner bases computations. In the normal biometric systems, where the data are always noisy, an approximate matching is expected; however, our cryptographic method gives particularly exact matching.

Keywords

Biometrics, Cryptography, Gröbner Bases

1. Introduction

Digital data sent over communication channels are subject to distorting as a result of various circumstances such as electromagnetic fluctuations. Also, it might not be able to restore correct data from a hard disk or a digital audio (or video) system as most of the storage media is liable for errors. Another extreme example is the images remitted from space-probes, where a considerable error rate takes place and re-transmission is often not possible. The last example is the biometric feature vectors made of the attributes of the individuals which are noisy by nature. The consequence is that the digital data received (read or captured) may be not the same as the primarily sent (stored or enrolled). In this regard codes provide a methodical technique to transmit messages, with some supplementary information (check digits) in such a way that an error occurring in the original messages will not only be detected by the receiver, but in many cases, it could be corrected. More algebraic structures should be added to the code spaces to solve the decoding and encoding problems efficiently. In particular, linear codes are excessively exploited for controlling errors because they are well understood, powerful and easy to generate.

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