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Forensic analysis of digital fingerprint based biometric data

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Digital Fingerprinting based biometric identification technology provides automated methods to identify a person based on physical characteristics of fingerprints. Although used in law enforcement and criminal identification for several years, it has recently been used in civilian applications. Securing access to valid data be it Banking, Security or Insurance is gaining popularity, and is often accomplished with fingerprint based biometric techniques. Verification and precautionary model is presented and applied to the biometrics on smart cards mainly used for Health Insurance Sector. A record of a person's unique characteristic is captured and kept in a database. Later on, when identification verification is required, a new record is captured and compared with the previous record in the database through a scientific method. The main menace is the duplication of biometric records which is a major challenge. The works explained and detailed in this abstract bring forth the forensic verification of the stored encrypted fingerprint data.

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