

# Design of Secure Biometric System Using Cancelable Techniques

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## Abstract

Individual identification can be accurately done by measuring biological parameters termed as bio-metrics. These have been proved as an unusual tool for identity verification. Recognition of biometrics and applications based on it is increased tremendously, so the privacy protection monitors are raising the privacy concerns. For reducing the privacy threats, the research work has increased to find methods to protect the biometric data. Security of biometric template is that the most challenging aspect of biometric identification system. The biometric data are stored as it is within the database which increases the rate of compromising it. This can also cause serious threat or misuse of the individual's identity. This paper proposes simple and a unique approach to store a biometric sample within the sort of template by using Cancelable Biometrics.

## Keywords

Cancelable biometrics   Revocable   Biometric sensor   Multi-biometrics   Biometric security   Template protection

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## References

1. Kaur H, Khanna P (2019) Random distance method for generating unimodal and multimodal cancelable biometric features. *IEEE Trans Inf Forens Secur* 14  
[Google Scholar](#) (<https://scholar.google.com/scholar?q=Kaur%20H%2C%20Khanna%20P%20%282019%29%20Random%20distance%20method%20for%20generating%20unimodal%20and%20multimodal%20cancelable%20biometric%20features.%20IEEE%20Trans%20Inf%20Forens%20Secur%2014>)
2. Wu S-C, Chen P-T, Swindlehurst AL, Hung P-L (2019) Cancelable biometric recognition with ECGs: subspace-based approaches. *IEEE Trans Inf Forens Secur* 14