

## Fingerprint matching on smart card: A review

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### ABSTRACT:

Fingerprint Match-on-Card (MoC) offers the highest degree of privacy and security to cardholders as the fingerprint never leaves the secure environment of a smart card. The level of security of a biometric system is evaluated by the location where the biometric matching takes place. However, it is challenging to implement an accurate fingerprint MoC algorithm, which can execute in a short period of time due the limited working memory and processing speed that the smart card provides. Implementing a fingerprint algorithm inside the smart card requires a small template size and a light matching algorithm. This paper reviews the existing fingerprint MoC algorithms, their shortfalls, and advantages.