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Integration of Iris Biometrics in Automated Teller Machines for Enhanced User Authentication

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Abstract

The ubiquitous Automatic Teller Machine that revolutionized the way monetary transactions are carried out the world over is currently riddled with several security challenges. Top on the list of these challenges are the thefts and frauds associated with the ever popular Personal Identification Number based automatic teller machines. A lot of suggestions and proposals have been made in recent times, on how to combat the menace of automatic teller machine frauds. Biometrics is one of the most promising tools that have the capacity to put the nefarious activities around automatic teller machines in check. This paper proposes a cheap and economic iris biometric based automatic teller machine, built around a microcontroller, iris scanner and a robust database. The designed and implemented prototype is capable of checkmating automatic teller machine fraud and it is also easy to implement in developing nations.

Keywords

Biometric Automatic teller machine Iris recognition Authentication

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Notes

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Further Work

An enhanced multimodal biometric ATM would be designed and implemented.

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