IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 6, May 2024

A Review on Enhanced Security in ATM Transaction Using Fingerprint Authentication

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Abstract: The proliferation of automated teller machine (ATM) usage in modern banking has necessitated robust security measures to safeguard transactions against various threats. Traditional methods of authentication, primarily reliant on Personal Identification Numbers (PINS) and magnetic stripe cards, are increasingly vulnerable to fraudulent activities such as card skimming and PIN theft. In response, biometrical authentication, particularly fingerprint recognition, has emerged as a promising solution to enhance ATM security. The fundamental concept revolves around the biometric phenomenon known as "authentication". Within this project, we present an approach to fingerprint comparison centered on Minutiae Matching Algorithm. In an era where digital transactions are increasingly prevalent, ensuring the security of Automated Teller Machine (ATM) transactions remains paramount.

DOI: 10.48175/IJARSCT-18559

Keywords: Minutiae Matching Algorithm, Biometrics, Fingerprint Authentication.

