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NFC Smartphone Based Access Control System Using Information Hiding

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1 Abstract

In the paper, they proposed a digital access control system by using near field communication (NFC) smartphone to unlock the door and replace the access card. They mentioned that if the system uses the access card or physical key as key to access the premise, then everyone who has the key can gain the access which is an insecure system. So, they provided an information hiding technique to overcome the problem by using stego-photo. System will generate the passcode and embedded it into the users photo which will become the stego-photo. The NFC reader will receive the stego-photo sent by smartphone, if the passcode inside the stego-photo is not match with the passcode inside the database, a light emitting diode (LED) will be turned on to alert the unauthorized users. [1]

2 Problem Solved

If the access card access password matches the password stored in the access control system, the door will unlock, and the user has access to his premises. Once the access card is lost, anyone who is in the possession of the card could easily enter the premise illegally.

3 Claimed Contributions

4 Related work

5 Methodology

Steganography is a useful technique for securely unlocked the door. However, it can also cause serious problems because its difficult to detect. Other that network breakdown, server breakdown and power failure also a problem that cause cant access the passcode inside the server.

6 Conclusions

References

- [1] Information hiding techniques for steganography and digital watermarking. 2000.