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Information Science and Applications 2018

International Conference on Information Science and Applications

ICISA 2018: Information Science and Applications 2018 pp 229-237 | Cite as

Fingerprint Biometric Authentication Based Point of Sale Terminal

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Conference paper

First Online: 24 July 2018

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Abstract

Retail businesses that are not transacted online still represent a substantial amount of retail deals that are closed on a daily basis. Retail business owners and customers continue to explore other means of ensuring payments made with Point of Sale (POS) devices are done securely. This paper proposes the incorporation of fingerprint biometric recognition as an additional layer of protection to the customary pin and password requirements to gain permission to pay for goods purchased and services rendered using point of sale devices. The proposed fingerprint biometric recognition point of sale device has zero false match and false non-match rate. This strengthens the present authentication process that makes use of pins and passwords that are prone to fraud and solidifies the trust and confidence users place on point of sale devices.

Keywords

Biometric Point of sale Fingerprint Recognition Authentication

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Notes

Acknowledgements

This paper was sponsored by Covenant University, Ota, Ogun State, Nigeria.

Further Work

A conscious and active incorporation of a liveness detector into the designed and implemented fingerprint biometric POS device.

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Cite this paper as:

Okokpujie K. et al. (2019) Fingerprint Biometric Authentication Based Point of Sale Terminal. In: Kim K., Baek N. (eds) *Information Science and Applications 2018. ICISA 2018. Lecture Notes in Electrical Engineering*, vol 514. Springer, Singapore

First Online

24 July 2018

DOI

https://doi.org/10.1007/978-981-13-1056-0_24

Publisher Name

Springer, Singapore

Print ISBN

978-981-13-1055-3

Online ISBN

978-981-13-1056-0

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