Postprocessing algorithm for security features extraction

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ABSTRACT
One of the issues of fingerprint recognition is finding minutiae or ridges, which involves deciding whether the pixel evaluated is a valid minutiae (ridge ending or ridge bifurcation) or not. Usually, the minutiae are detected in the thinned image which contains a large number of false minutiae and noises. Its may highly decrease the matching performance of the system. This paper proposes an algorithm which is used to eliminate spurious minutiae and non-component of fingerprint features.

REFERENCES

1. P.Balakumar and R.Venkatesan, "Biometric Based File Transmission Using RSA Cryptosystem", (IJCNS) International Journal of Computer and Network Security, Vol. 2, No. 4, April 2010

2. A, Okatan, Ç. Akpolat and S. Senyücel, "Cosine Transform Method for Fingerprint Recognition", International Conference on Intelligent Knowledge Systems, Assos, Troy, Turkey, IKS-2004, 16-20 August 2004

3. R. Kaur, P.S. Sandhu, and A. Kamra, 'A novel Method For Fingerprint Feature Extraction', IEEE, 978-1-4244-7578-0, 2010.

4. M. Tico and P. Kuosmanen, "An Algorithm for Fingerprint Image Postprocessing", vol. 2, pp. 1735-1739, Pacific Grove, California, USA, October , 2000.

5. R, Mohd Yusof. and N. Sulaiman, "A Review on Minutiae Extraction of Fingerprint", 2nd World Conference on Information Technology, 2011.