Abstract

This paper explores the algorithm to match fingerprints. With regard to the development of ever-increasing crime and the complexity of doing it, in parallel the importance of technology and scientific knowledge in order to prevent the crimes and find offenders will be obvious. Fingerprint is one of the secure methods for identification individuals and used in the field of crime detection, event control systems, national borders control and etc. Main reason for choosing this method for identification people is uniqueness of each person's fingerprint; also some of its property has no change till the end of life. These features are used in fingerprint matching. There are different standard methods for manual fingerprint matching but doing it manually is difficult and also time consuming, also is not very efficient; of course since databases have millions of fingerprint templates, manually matching is practically impossible. In order to make matching process automatic it requires a method for imaging or coding the fingerprint. This image should have conditions such as Ability of differentiation of any fingerprints in different levels of screen resolution, the ability of the utilization in auto matching algorithms, Simple calculations and etc. In this paper we try to provide the above conditions or even more efficient algorithm.
References

- FINGERPRINT MATCHING, Anil K. Jain, Jianjiang Feng, Karthik Nandakumar, Published by the IEEE Computer Society, 0018-9162/10/$26.00 © 2010 IEEE.

Index Terms

Computer Science
Image Processing
Keywords
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