**FINGERPRINT RECOGNITION FOR IMAGE AUTHENTICATION**

**ABSTRACT**:

With identity fraud in our society reaching unprecedented proportions and with an increasing emphasis on the emerging automatic personal identification applications, biometrics-based verification, especially fingerprint-based identification, is receiving a lot of attention. Fingerprint verification is an important biometric technique for personal identification. The critical factor in the widespread use of fingerprints is in satisfying the performance (e.g., matching speed and accuracy) requirements of the emerging civilian identification applications.

The proposed system is fingerprint authentication system using filter bank based matching algorithm. The algorithm uses Gabor filter bank to extract features of fingerprints. This type of representation generates a short, compact and fixed length code called ‘finger code’ with which the matching becomes easier. In the matching stage the input and the template finger codes are compared and the result can be obtained by calculating the Euclidian distance between the corresponding finger codes. Thus the result both the fingerprints are matched or not can be made from the observations. Hence we replace the minutiae based matching techniques by filter-based matching.

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