Finger Vein Verification System based on Three Methodologies of Feature Extraction

Abstract

As a new manner of biometrics measurement, human finger vein pattern has been developed. Many researchers have paid close attention to this topic. In this paper, three methodologies of features extraction are used for finger vein verification system. These methods are: Grey Level Co-occurrence Matrix (GLCM), Tamura, and Scale Invariant Feature Transform (SIFT). Empirically, the results of the proposed algorithm was acceptable and better.

References


8. Liu, Tong, Jianbin Xie, Wei Yan, Peiqin Li, and Huanzhang Lu. 2015 Finger-vein recognition with modified binary tree model. Neural Computing and Applications 26, no. 4, pp. 969-977.


**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Finger vein, Feature extraction, GLCM, Tamura, SIFT, Matching Algorithm.