Abstract

Recently, due to the development in computer software, laser printers and scanners, counterfeiting has become an urgent issue. As a result, distinguishing fake currency from genuine one using new technologies has become more important. This research paper presents a new feature extraction based system for detecting the fake Egyptian paper currency. The process of extracting features is separately performed on both sides of the original and the sample version of the currency image. The obtained features are divided into two parts namely; texture features and shape features. The currency detection decision for each side is independently acquired by similarity measurement. Simulation results show that the proposed system can be used effectively in financial organizations and various commercial applications.

References

Fake Egyptian Currency Detection System using Texture and Shape Characteristics

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**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Egyptian currency, Fake currency, Currency detection, Feature extraction, GLCM.