Fake Egyptian Currency Detection System using Texture and Shape Characteristics

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 143
Number 2

Year of Publication: 2016

Authors:
W. K. ElSaid

10.5120/ijca2016910024
2016910024.bib

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

Issue 1, PP 321-327, March 2015.


**Index Terms**

Computer Science Pattern Recognition

**Keywords**

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