Abstract

CBDA is an emerging field in Computer Vision and Pattern Recognition. In recent technology, cameras are moulded with several equipments and are very interesting and playing a vital role by replacing scanner with hand held imaging devices (HIDs) like Digital Cameras, Mobile phones and gaming devices. Documents captured through Mobile are often prone to Skew Removal of graphics and Correction of skew for Mobile captured document is a major task and important factor in optical character recognition. The goal of the work is to remove graphics from the document and correct skew for the documents captured using cellular phone. In this paper we have proposed a novel method for separating or removal of graphics like logos, animations other than the text from the document and finally textual content skew is corrected and characters are recognized using commercial OCR. The basic process of our approach consists of three steps: First, a vertical and Horizontal projection is used to remove graphics from images...
secondly dilation operation is applied to the binary Images and the dilated Image is thinned; finally, the skew angle is detected using the Hough transform. The proposed approach with high precision can detect skew with large angle (-90 to +90) the experimental result reveal that the proposed method is efficient compared to well known existing methods. The experimental results show the efficacy compared to the result of well known existing methods.

Reference


Index Terms

Computer Science                   Pattern Recognition
Key words

HIDs

and Horizontal Projection

Hough Transform

Skew

Computer Vision

Pattern Recognition