An approach for Skew Detection using Hough Transform

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

Volume 136

Number 9

Year of Publication: 2016

Authors:

Bhavesh Kumar Shukla, Gautam Kumar, Ashish Kumar

10.5120/ijca2016908567

Abstract

Detecting skew of any document image and correcting that are important issues in the preprocessing stage of OCR system. The Hough Transform is a technique that performs skew detection in the document images. In the present work, voting is done on the basis of angle from 0 to less than 90°. Moving from one angle say $\theta_1$ to $\theta_2$, five partitioned are considered i.e. there would be 450 classes. Voting is the process to find the belongingness of a pixel to a particular class. Finally, each pixel present in skewed image is found to which class it belongs. The class which has maximum count of the pixels is taken as skewed angle class. Performance of our algorithm is analysed. It gives increasing results.

References

2. R. O. Duda and P. E. Hart, "Use of the Hough Transformation to Detect Lines and Curves

Index Terms

Computer Science Control Systems

Keywords

Skew detection, Hough Transform, OCR