Abstract

Text line segmentation is extremely important phase of OCR. Overlapped lines, skewed lines and connected components make the problem of line segmentation more complicated in Gurumukhi handwritten documents. The existence of these problems in handwritten text documents declines the performance of OCR system. In this paper, we present a technique to solve these problems. The proposed algorithm is based on mid-point detection. The algorithm deals with these problems and gives effective results 90% in case of overlapped lines and 94% accurate results for segmentation of connected components between neighboring lines. This paper also provides a review on major problems in line segmentation that decreases the accuracy of recognition system. The proposed method has achieved 93.05% accuracy in text line segmentation.

References

- Namisha Modi, Khushneet Jindal, "Text line detection and segmentation in..."
Segmentation of Connected Components and Overlapping Lines in Gurumukhi Handwritten Documents


**Index Terms**

Computer Science

Artificial Intelligence
Keywords
Line Segmentation  Gurumukhi  Skew Lines  Overlapped Lines  Connected components.