Abstract

Segmentation of the text lines in an un-constrained handwritten documents still a challenging task because handwritten text lines are often un-uniformly skewed and curved, and the space between lines is not obvious. In this paper, we propose a text-line segmentation algorithm based on clustering using threshold. The connected components of document image are grouped, from which text-lines are extracted dynamically by coloring all the text-lines.
References

- Seni G., Cohen E. (1994), External word segmentation of off-line handwritten text line, pattern Recognition, 27, Issue 1, January, pp 41-52
- Marti U., Bunke H. (1999), A full English sentence database for off-line handwriting recognition, Proc. 5th
- F. Yin, C. L. Liu, (2007), Handwritten text line extraction based on minimal spanning tree clustering, Proc. 5th Int. Conf. on Wavelet Analysis and Pattern Recognition, Vol. 3, pp. 1123-1128.
- Fei Yin, Cheng-Lin Liu, Handwritten Text Line Segmentation by Clustering with Distance Metric Learning, National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences

**Index Terms**

Computer Science  Pattern Recognition

**Keywords**

Handwritten Document  Segmentation  Bounding Box  Threshold  Clustering