Abstract

Character Segmentation of Handwritten Documents has been an interested area of research and its applicable environment becomes it a challenging research topic. The desire to edit the scanned document leads to develop the idea of optical character recognition. Segmentation plays very important role in optical character recognition system. The incorrect segmentation is just like a garbage in and garbage out. Segmentation of the broken character is quite difficult because vertical profile projection technique assumes the broken parts of the characters as individual characters. Existing methods focuses only upon the single touching characters. But our main focus is to design a robust method for the segmentation of broken and multiple touching characters. Existing systems focus only on the segmentation of fixed sized characters. But we develop the size independent algorithm which works on variable size characters. Thus, in the proposed method we develop the algorithm which works on the segmentation of broken, multiple touching characters of independent size including the three zones of the handwritten gurmukhi script. The main challenges like as variation in handwriting style etc. make the segmentation to difficult.
A Review on Segmentation of Touching and Broken Characters for Handwritten Gurmukhi Script

- Thakral B., Kumar M., "Devanagari Handwritten Text Segmentation for Overlapping and Conjunct Characters- A Proficient Technique", Institute of Electrical and Electronics Engineers (IEEE), pp. 1-4, 2014.

Index Terms

- Computer Science
- Pattern Recognitions
Keywords
OCR  Pre-Processing  Segmentation  Recognition  Gurmukhi Script  Broken Characters
Touching characters.