

Detection and Segmentation of a Line from A Handwritten Gurmukhi Document

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Abstract --To take care of variability involved in the writing style of different individuals, in this paper we propose a robust scheme to segment unconstrained handwritten Gurmukhi texts into lines, In this paper we present a top-down, projection-profile based algorithm to separate text blocks from image blocks in a Gurmukhi handwritten document. We use a distinctive feature of Gurmukhi text, called Shirorekha (Header Line) to analyze the pattern produced by Gurmukhi text in the horizontal profile. To take care of variability involved in the writing style of different individuals in this paper we propose a robust scheme to segment unconstrained handwritten Gurmukhi texts into lines. For line segmentation, at first, we divide the text into vertical stripes. Next we determine horizontal histogram of these stripes and the relationship of the minimal values of the histograms is used to segment text lines.