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Comparative performance study of word segmentation techniques for handwritten odia documents

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Abstract

Document Sections

- I. Introduction
- II. Motivation and Related Work
- III. Properties of OODIA Script
- IV. Proposed Approach

Abstract:
Word segmentation of handwritten documents is a vital step in the Optical Character Recognition system as its accuracy greatly influences the overall recognition performance. In the literature, various methods have been proposed for word segmentation of handwritten documents of various languages. However, it is observed that for Odia, which is an important Indian language, very little work has been reported on word segmentation. Hence, the objective of this paper is to employ two standard existing methods to segment words of Odia handwritten documents and compare the segmentation performance of these methods with the lone Water Reservoir Algorithm available in the literature and finally rank those methods based on their segmentation performance. It is observed that out of three methods, the Tree Structure method performs the best comparing four different performance measures.

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IV. Proposed Approach

V. Evaluation and Experimental Results

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I. Introduction
Segmentation of document images into text lines and words is a very critical step for Optical Character Recognition (OCR). The segmentation of handwritten documents and another challenging task due to (i) sporadic spacing between text lines and words, (ii) characters and spaces depending on the writers style, (iii) distorted image quality along with whiteboards of noise, (iv) occurrence of skew and slant in each text line.

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