

Thesis Title	Binarization Of Document Images By Text/Photograph Segmentation
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ABSTRACT

The content of any documents may contain two types of regions : text regions representing dark objects located on a clear background, and photograph regions representing continuous-tone areas. A critical function of document processing systems is the automatic segmentation of digitized documents into regions of text and photographs. Each of region is produce binary images by another method. This thesis will be present an algorithm for Mixed Document Binarization. Documents are scanned as 256 gray-level images with commercial scanner at 300 dots per inch. It separates the document into two types of regions, which we call text regions and photograph regions. Each type of those regions will be binarized by appropriate technique : thesholding for text regions, and halftoning for photograph regions. The final binary image is then obtained by merging the results from those two processes. Hence this technique can produce high-quality binary representation of any documents consisting of text and photograph in the same page.