

"Text extraction from given images"

Text extraction is one of the key tasks in document image analysis. Automatic text extraction without characters recognition capabilities is to extract regions that just contain text. The text extraction process includes detection, localization, segmentation, and enhancement of the text from the given input image.

Text extraction from an image is a challenging problem because the image contains text due to different sizes, styles, orientations, alignment, low contrast, noise and has a complex background structure.

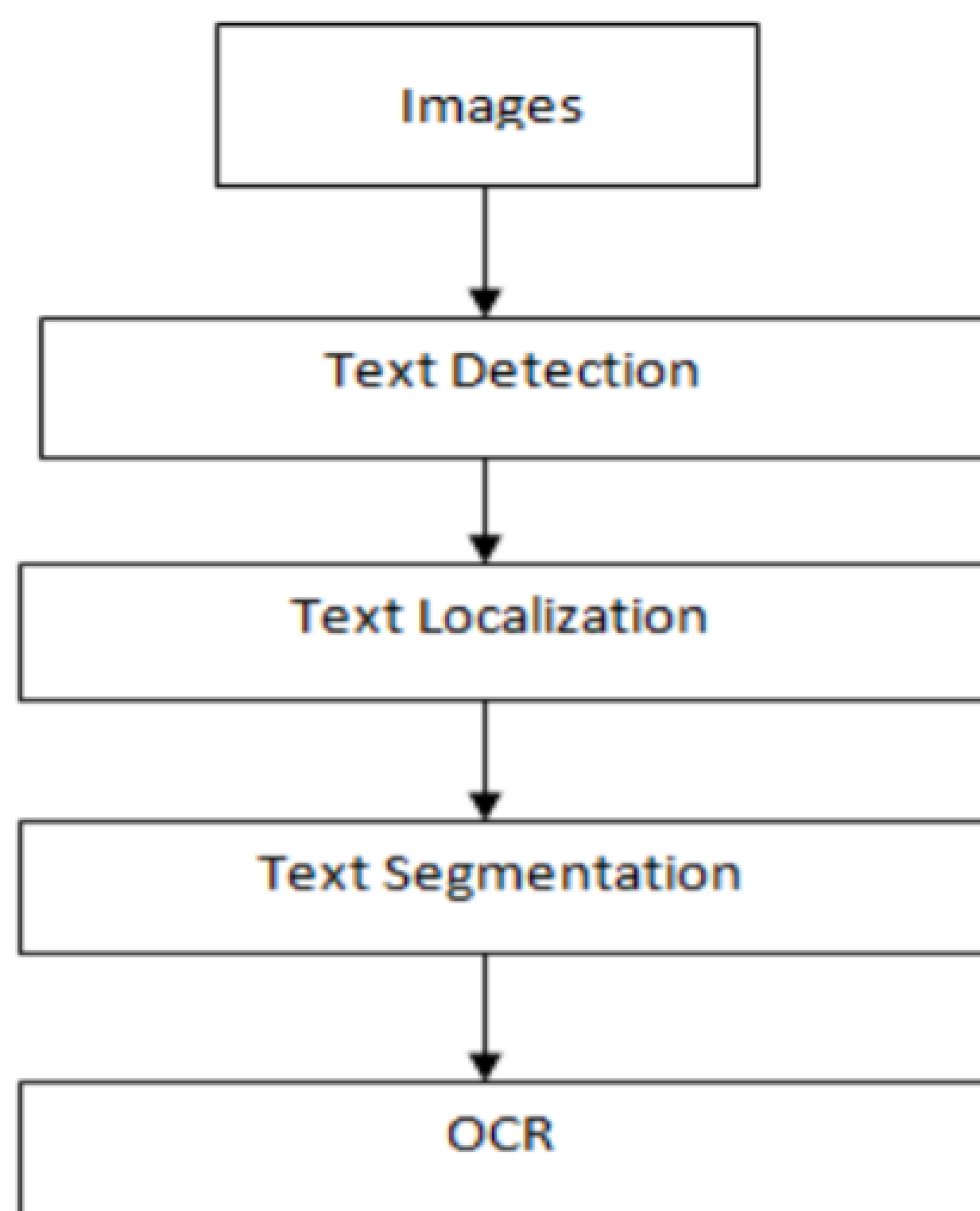


Figure 1: Text Extraction Block Diagram

Figure1 shows the steps involved in the text extraction technique. Text detection refers to the determination of the presence of text in a given input image, done by exploiting the discriminate properties of text characters such as the vertical edge density, the texture, or the edge orientation variance. Text regions should have high contrast than the background; otherwise, it would not be easily readable. This is the basic idea behind text localization, which is referred to as locating the text portion in the image. The located portion is extracted during the text extraction phase. The output from this phase is given to OCR in order to eliminate as many falsely identified text regions as possible.