Abstract

Many algorithms have been proposed for the document image binarization from past decades and still working on degraded document image is under process to generate more capable, noiseless and clear document image. Document image enhancement is very fashionable to improve old handwritten and machine printed documents. The proposed system enclose a new binarization technique that is image segmentation which contain neighborhood window pixel algorithm by using this technique detect text stroke edges and generate clear binarized image from the input image. Proposed system construct gray scale conversion using LC2G (Learning-based Color-to-Gray) used as pre-processing for document image enhancement. Image segmentation algorithm is used to generate the cleared binarized document image and single pixel artifacts removal algorithm is used to connect break edges due to the degradation.

References

1. RachidHedjam, Hossein Ziaei Nafchi, Margaret Kalacska and Mohamed Cheriet, Senior

**Index Terms**

Computer Science  
Image Processing

**Keywords**
Document image binarization, Degraded document Image, Grayscale, LC2G.