Abstract

Image binarization is still a relevant research area due to its wide range of applications in the field of document analysis and recognition. Accuracy of binarization methods affected by many factors such as shadows non-uniform illumination, low contrast, large signal-dependent noise etc. This paper provides a comprehensive survey of major binarization techniques. We also emphasis on the problems being encountered and the related issues in the research area of document image binarization. In addition, some important issues affecting the performance of image binarization methods are also discussed. This literature review suggests that designing a suitable document image binarization method is a prerequisite for a successful document image analysis and recognition.

References

- Su, B., Lu, S., Tan, C. L.: Robust document image binarization technique for degraded
Document Image Binarization Techniques, Developments and Related Issues: A Review


Index Terms

Computer Science  Image Processing

Keywords

Image binarization; Thresholding; Segmentation; Optical Character Recognition (OCR).