Abstract

Document Image is an electronic form of paper documents it is a combination of handwritten, Machine printed texts, pictures, office documents and graphs etc. Noise reduction in document image is important to maintain the quality of images for further processing and analysis. Noise is added into an image during the time of image acquisition. Once image is captured, image pre processing is necessarily done to correct and adjust the image for further analysis tasks such as segmentation, text classification etc. Salt and Pepper noise from document images is randomly scattered white or black (or both) pixel over the image. Normally the filters are used to improve the image quality, suppress the noise. In this paper median filtering technique is proposed for removing salt and pepper noise from various types of document images and its performance is analyzed using Peak Signal to Noise Ratio (PSNR).

References

- Thomas s Hung et al. , "A Fast Two-Dimensional Median Filtering Algorithm";

Index Terms

Computer Science
Image Processing

Keywords
Document Image Noise reduction Salt and Pepper Noise Median Filtering Peak Signal to Noise Ratio(PSNR)