Abstract
In this paper we present a new fusion technique to increase the information content of the fused image. We propose information fusion by maximizing the wavelet entropy using windowing technique. It helps to diagnose the diseases like tumor, cancer …etc effectively. The images are decomposed by wavelet transform and using maximum selection rule the low frequency and high frequency bands are fused. After fusion The entropy is maximized using windowing technique. Using IDWT the fused image is resulted. The affective area in fused
image is isolated and analyzed using GLCM based segmentation. GLCM based segmentation preserves the discontinuity and edge information better than other segmentation techniques.

Reference

- Z. Yang, S.Y, Mao, W. Chen, New Image fusion algorithm based on Wavelet contrast, system engineering and electronics, Vol 8, No 2, 209-211, 2005
- http://www.medicalencyclopedia.com for bio-medical images
- http://www.Umdnj.edu for medical images
- pacs.carestreamhealth.com for medical images
- 15M. Vetterali and J.Kovacevic, Wavelet & Sub-band Coding
- R.C Gonzalez, R. Woods, S.L. Eddins, Digital Image Processing Using MATLAB
- Dutta, Chanda, Majumdar, Digital Image Processing.

Index Terms

Computer Science

Image Processing
**Key words**

Image fusion
Wavelet Transform

MS rule

GLCM