Abstract

Nowadays lots of work is going to be done on the field of image fusion and also used in various application such as medical imaging and multi spectra sensor image fusing etc. For fusing the image various techniques has been proposed by different previous works such as wavelet transform, IHS (Intensity, Hue and Saturation) and Principal Component Analysis (PCA), based methods etc. In this paper literature of the image fusion is discussed with implementation using wavelet transform used for the specific application as in the image restoration field. Using Image fusion may improve the perceptual quality of the restored images. Usually image de-blurring methods are used at the front end for restoration and then image fusion is used for improving the visual quality. Paper uses three de-blurring technique to blindly restoring the image then use statistical parameters for adopting the best fused images out of various hybrid fusion results. Performance is tested on images with distinct features.

References


7. X. Xing, Research on the image fusion algorithm based on no-subsampled shearlet transform, Jilin University, 2014.


Index Terms

Computer Science   Image Processing
An Adaptive Wavelet based Fusion Approach for Efficient Image Restoration

Keywords

Image Restoration, Image Fusion, Discrete Wavelet Transform, Blind de-convolution, Wiener filter, Entropy