Abstract

Image fusion is a process to combine information from multiple images of the same scene. The result of image fusion will be a new image which is more suitable for human and machine perception or further tasks of image processing such as image segmentation, feature extraction and object recognition. This paper explains DWT (Discrete Wavelet Transform) or we can say decomposition of two images, after decomposition, fusion of decomposition is carried out which produces a fused image and then SIFT features extracted from the fused image. After extracting SIFT features matching is performed. Experimental Results shows that proposed method produces 95% accuracy.

Reference

- Dakshina Ranjan Kisku, Jamuna Kanta Sing, MassimoTistarelli, Phalguni Gupta,” Multisensor Biometric Evidence Fusion for Person Authentication using Wavelet Decomposition
and Monotonic-Decreasing Graph”, 2009 Seventh International Conference on Advances in Pattern Recognition, 2009 IEEE.

**Index Terms**

Computer Science  
Computer Vision

**Key words**

Multimodal biometric fusion  
DWT  
SIFT  
Image fusion  
image matching