Abstract

Multimodality medical image fusion is used to improve the imaging quality and reduce randomness and redundancy in order to increase the clinical applicability of medical images for diagnosis and assessment of medical problems. In this paper a hybrid method based on the non-subsampled contourlet transform (NSCT) and fractional fourier transform (FRFT) is proposed. CT & MR images of different cases have been used to test the proposed method and results are compared with those of the other conventional image fusion methods by both visual analysis and quantitative analysis.

References

Multimodality Medical Image Fusion Technique using Hybrid Method


8. Xing Xiaoxue, Lei Yanmin, “Medical Image Fusion in Compressed Sensing Based on Non-sampled Contourlet Transform” 2013 IEEE.


Index Terms

Computer Science Image Processing

Keywords

Non-sampled contourlet transform, fractional fourier transform, phase congruency and directive contrast.