Abstract

Image contrast enhancement is a feature for the enhancement of image. Images contrast is a feature which has been utilize for the proper visualization of image. The nuclei of the hydrogen atoms in the biological tissue adjusts themselves to the magnetic field, afterwards a radio-magnetic pulse will raise their energy level further, when the pulse ends they will relax and during the relaxation this energy will be transmitted from the atoms. The transmitted signal then be detected by the equipment and processed further into the pixels which turn up making the biomedical image. This work is more focused on medical images but the methods described here can be applied to any kind of image. The medical images have been enhanced by using the contourlet transform. In this work the contourlet transform is flexible enough to also do the regular 2-D separable wavelet transform. In this paper contourlet transformation is being used for enhancement of medical image. Then contourlet transformation is optimized by using PSO approach.
Medical Image Enhancement Optimizing Contourlet Transformation by using PSO Approach

6. Alex F. de Araujo “New artificial life model for image enhancement”, IEEE Conf. on image enhancement, 2013, pp 6-16.

Index Terms

Computer Science

Image Processing

Keywords

Image enhancement, medical image, correlation, EPI and SSIM, PSO