(54) Title of the invention : DE-NOISING MEDICAL IMAGES IN TRANSFORM DOMAIN

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(57) Abstract :

Now a day image processing has a great application in medical science. This invention projected a de-noising method based on wavelet transform for medical images. Acquisition and Transformation of medical images cause noise. This noise affects the diagnosis process of the disease and must be removed. The noises in the medical images can be additive and multiplicative noises. This innovation is efficient in removing both the noises. A threshold value is determined using soft thresholding method. The wavelet coefficients are thresholded and recovered. Wavelet thresholding filter is a common type of wavelet-based filter that can remove multiplicative and additive noise. The basic steps of this type of filters involve generation of wavelet coefficients, modification of wavelet coefficients and recovering of image from the modified wavelet coefficients by inverse wavelet transform. For modifying the wavelet coefficients a threshold value is required and the de-noising efficiency depends on the threshold value. Soft and Hard thresholding methods are widely used and have been proved more promising in removing the additive and multiplicative noise.

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