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RESEARCH ARTICLE

The Image Quality in Computer Tomography Using Curve-let Transform

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Abstract-The purpose of the ct-image de-noising is an important research topic both in image processing and biomedical engineering. Independent component analysis (ica) is a statistical technique where the goal is to represent a set of random variables as a linear transformation of statistically independent component variables. The curve let transform as a multiscale transform has directional parameters occur at all scale, locations, and orientations. in this proposed a new model for ct medical image de-noising, which is using independent component analysis and curve let transform. By this approach could remove more noises and reserve more details, and the efficiency of our approach is better than traditional de-noising approaches.

Keywords – Computer Tomography (CT); denoising Filters; image quality; radiation dose; curve let transform; Independent Component Analysis

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