

웨이블릿 수축 특성을 이용한 영상의 윤곽선 검출 알고리즘

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- Abstract -

Wavelet theory is well suited for signal and image processing. This paper propose the preprocessing filter for edge detection based on wavelet-thresholding. Important class of algorithm defines a criterion to divide the wavelet coefficients into two groups. The first group contains the coefficients are sufficiently dominated by noise, while the other coefficients are sufficiently clean. Then eliminate all wavelet coefficients below a certain threshold because those coefficients are nominated by noise.

In the proposed method PSNR results show that the estimator performs excellently in comparison with conventional methods without knowing the noise variance and volume of signal.