Abstract

This research work is extended version of our previous work, which was carried out on 2-D image edge detection using daubachies db10 wavelet transform. Here in this paper, the db10 wavelet transform for edge detection is compared with most widely used edge detection techniques, such as Sobel, Prewitt, Roberts and Laplacian of Gaussian (LoG) and Canny. The comprehensive studies along with pros and cons of each edge method have been explained. 2-D image of different edge detection techniques have been generated in MATLAB and results are being compared.

References

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Comparative Study on Various Edge Detection Techniques for 2-D Image


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**Index Terms**

Computer Science

Image Processing

**Keywords**

Wavelet Transforms; Daubachies; Edge Detection