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Abstract

In this article, a method has been proposed which can be utilized for the extraction of random required data from .jpeg/.png/.tif images. Firstly, the concepts of edge detection in image processing and how it can be used for various applications are being introduced. Then, various steps that are involved in the process of edge detection are discussed in the paper. An algorithm has been developed for the extraction of required data from .jpeg/.png/.tif images. MATLAB® has been used to carry out numerical simulations. It has been found in the study that for the efficient extraction of data from .jpeg/.png/.gif/.tif images, the font size should be > 36 and the considered image should be a high contrast with threshold 0.1 to 0.34.

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Index Terms

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Image Processing

Keywords

Pixels, MATLAB®, Masking, Prewitt, Sobel