

Abstract Details

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Title: Implementation for De-noising of Images by Different Filters

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Abstract: The paper is based on digital image processing. In imaging science, image processing is any form of signal processing for which the input is an image, such as a photograph or video frame; the output of image processing may be either an image or a set of characteristics or parameters related to the image. Image processing usually refers to digital image processing, but optical and analog image processing also are possible. Digital image processing is the use of computer algorithms to perform image processing on digital images. Digital image processing deals with manipulation of digital images through a digital computer, it is a subfield of signals and systems but focus particularly on images. DIP focuses on developing a computer system that is able to perform processing on an image. The input of that system is a digital image and the system process that image using efficient algorithms, and gives an image as an output. The basic aim is to study the various types of noise that can cause blurring of an image. And also the various types of filters that are used to reduce the noise to de-blur the image will be studied. All the effects of various types of noise involved are shown using MATLAB. Also we will be writing the MATLAB code for various types of filters involved.

Keywords: Image Processing, MATLAB, Noise, Filters.