Abstract

Image Restoration is one of area related to image processing which deals with restoring an original and sharp image from corrupted image using a mathematical degradation and restoration model. In this proposed work, a comparative study analysis of simple, fast technique is given to remove noise of an image which is mostly introduced due to environmental changes or due to other issues. Researchers focus on the noise issues that changes image pixels value either on or off. To get an enough efficient method to remove the noise from the images is a greater challenge for the researchers. Noise plays an important role in degrading the image at the time of capturing or transmission of the image. There are many algorithms and filtering techniques available which have their own assumptions, merits and demerits depending upon the prior knowledge of the noise. Image smoothening is one of the most significant and widely used procedure in the image processing. Here, apart from noise a model, the light is also thrown on comparative analysis of noise removal techniques is done. This paper will present the different noise types to an image models and investigating the various noise reduction techniques and their advantages and disadvantages and also it will help the new researchers to
have the detailed and comparative knowledge regarding image restoration and all its associated
details.

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**Index Terms**

Computer Science | Image Processing

**Keywords**

Noise Models, Filters, Noise removal techniques, Image restoration.