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Abstract

Image restoration is an important task to recover the original image from degraded image. The degradation may be analyzed through Probability density function (PDF) found for various noise such as Gamma, Gaussian, Salt and pepper etc. This article focuses on Image Restoration with spatial coordinates and frequency parameters. Under this study, this article denotes that restoration techniques are best formulated in the spatial domain than the frequency domain. Spatial coordinates are processed only for additive noise on other side and degradation of images like Image blur, Image restoration can takes place in frequency domain. This article also discusses about the various filtering techniques for Image restoration, Image sharpening and smoothing process in terms of Image enhancement in frequency domain. High pass filter and low pass filter are best suitable for sharpening and smoothing of images respectively.

Keywords

Image filters, Restoration, Transformations, degradation, Image sharpening, Smoothing