Abstract

Image blur is general artifacts in digital image processing and it is hard to avoid. Image enhancement or deblurring is necessary to reduce blur amount from the image. Image deblurring is a process used to reduce the blur quantity in a blurred image and make the degraded image into sharpened and clear image. When deblurring images, cause of blurring is very important to increase the effect of the deblurring to get good result. While working with real-time images, we may not have the knowledge of the reason of blurring. There are various sources why image gets blurred like motion blur, camera shake, out of focus blur, etc. This paper carried out performance comparison of different techniques to diminish the effects of above mentioned causes of blurring. The analysis and comparison was conceded out based on types of blur, Peak Signal-to-Noise Ratio (PSNR), Mean Square Error (MSE) and Execution time.
A Survey on Different Image Deblurring Techniques


Index Terms

Computer Science
Image Processing
Keywords

Image Degradation  Image Deblurring  Deconvolution  Types of blur  Point Spread Function (PSF)

Peak Signal-to-Noise Ratio (PSNR)

Mean Square Error (MSE).