Abstract

Degradation of images is one of the major problems in image processing. Blur in images is an unwanted reduction in bandwidth which degrades the image quality and it is difficult to avoid. Blur occur due to atmospheric turbulence as well as improper setting of camera. Along with blur effects, noise also corrupts the captured image. Restoration of image is a technique to get rid of the blur from the degraded image and recover the original image. Blur can be of various types like Gaussian blur, motion blur etc. Now a day’s there are various different techniques and methods have been proposed to deblur a degraded image. For specific types of blur there are specific methods to remove it. Image restoration has applications in various different-different fields like medical imaging, forensic science, and astronomy. In this paper, we will discuss various image deblurring techniques and their analysis of performance.

References


6. Mr. A. S. Mane, Prof. Mrs. M. M. Pawar “Removing blur from degraded image with blind deconvolution using canny edge detecting technique” vol. 1,issue 11 november 2014.


11. C. Paramanand and A. N. Rajagopalan, “Non-uniform Motion Deblurring for Bilayer Scenes” ©2013 IEEE.


18. Lu Yuan, Jian Sun,”Image deblurring using blurry/noisy image pairs” ACM.


Evaluation of Image Deblurring Techniques

29. Wenzhi Liao, Bart Goossens, Jan Aelterman, Hiep Quang Luong, Aleksandra Pizurica, Niels Wouters, Wouter Saeyts, Wilfried Philips “Hyperspectral image deblurring with pca and total variation”.

Index Terms

Computer Science                           Image Processing
Keywords

Deconvolution, Degradation model, Point spread function (PSF), Peak signal to noise ratio (PSNR).