Abstract

It is the age of fast and good quality Digital images, those are subject to blurring due to many hardware limitations, such as atmospheric trouble, apparatus noise and poor focus quality. A high quality image restoration is done by making a High dynamic range (HDR). The (HDR) image generation had been studied in past years. Due to the expense and lack of HDR cameras, a lot of works try to generate HDR images using several low dynamic range (LDR) images with different exposure setting. To ensure high-class HDR image generation and details of the scene should be retained in different LDR images and the exposure parameters of LDR image should be chosen carefully. In this paper our proposed work focuses on the tone mapping techniques with a practice to dynamically determine the suitable exposure parameter for LDR images agreeing to the property of each scene to be seized. The proposed method provides approximately 10% improvement in UIQI in comparison to C. S. Vijay method. Simulation results reveal that better HDR images are always generated with the LDR images held by the determined exposure, compared to those produced by the method with fixed exposures.


**Index Terms**

Computer Science  
Image Processing

**Keywords**

HDR Imaging Image Restoration Exposure Determination