Abstract

Image blurring is one of the major problems in the field of digital image processing. Generally, camera shake causes blurring. As a result, uneven blur kernel is present in the image which is random in nature. Therefore, every image in the burst is blurred in a different way. Deblurred image can be obtained using single image or multiple images. A clean sharp image is recovered by fusing the group of images without calculating the blurring kernel. In this paper, a new technique called a new weighted average filter is introduced for removing camera shake using single or multiple images. This technique takes a burst of images and calculates a weighted average in the Discrete Wavelet domain, where the weights of images depend on their Discrete Wavelet Spectrum magnitudes.

References

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Index Terms

Computer Science  
Artificial Intelligence

Keywords

Blur, burst, Discrete Wavelet