Abstract

An interactive deblurring technique to restore a motion blurred image is proposed in this paper. Segment based semi-automated restoration method is proposed using an error gradient descent iterative algorithm. In this approach, segments are automatically detected which are the best representatives of motion blur. Then the decimal parameters of the blur kernel are interactively derived; with extended precision using interpolation between pixels, with comparatively much lower error convergence rate. Once blur kernel is obtained, image is restored using Striling's interpolation formula. Experimental results show that proposed method gives sufficient restoration as interactive judgment gives the most desirable quality.

References


Index Terms

Computer Science
Image Processing
Keywords

Image Deblurring  Motion Blur  Image Interpolation