Abstract

When a noisy image is a single image then it suffers from limited data collection in denoising it. In this paper, we propose image denoising scheme, which explores both internal and external correlation with the help of web images. In this paper, we use two stage filtering technique for denoising the image in the first stage we use graph-cut based patch matching and frequency truncation and then combining result of both filter and enter into the second stage in the second stage we use adaptive filtering and wiener filtering for denoising the noisy image and then combining the result of both filter. By using two stage filtering technique we get better filtered image.

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Index Terms

Computer Science | Image Processing

Keywords

Image denoising, external correlations, Internal correlations, web images, wiener filter, adaptive
filter.