Abstract

Image Inpainting is the process of filling in missing regions in an image. The objective of inpainting is to reconstruct the missing regions in a visually plausible way. Several algorithms
are available in the literature for the same. Many researchers have proposed a large variety of exemplar based image inpainting algorithms to restore the structure and texture of damaged images. In this paper we introduce a novel exemplar based Image Inpainting Algorithm with an improved priority term that defines the filling order of patches in the image. This algorithm is based on patch propagation by inwardly propagating the image patches from the source region into the interior of the target region patch by patch. Experiment results show that our proposed exemplar based image inpainting algorithm performs well compared with other existing algorithms on the basis of Peak Signal to Noise Ratio (PSNR). The results are found to be highly competitive with other recent inpainting methods.

References


Index Terms

Computer Science  
Image Processing

Keywords

Image inpainting  
Exemplar based

Patch Propagation

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