Abstract

Image Inpainting is a technique in which mainly used to filling the region which are damaged and want to recover from unwanted object by collecting the information from the neighbouring pixels. Image inpainting technique has been widely used for reconstructing damaged old photographs and removing unwanted objects from images. In this paper, we present an improved Exemplar based Structure tensor inpainting method based on the exemplar-based image inpainting technique by modifying the distance function. The method proved to be effective in removing large objects from an image, ensuring accurate propagation of linear structures, and eliminating the drawback of "garbage growing" which is a common problem in other methods. Experimental results show that our method improves the quality of image inpainting compared with the conventional exemplar-based image completion algorithms.
Improved Exemplar based Image Inpainting using Structure Tensor


**Index Terms**

Computer Science  
Image Processing

**Keywords**

Exemplar  
Texture Synthesis  
Inpainting  
PDE  
image gradient  
structure tensor  
etc.