Abstract

Image Inpainting is a technique that is mainly used to fill the damaged regions of an image and to recover from unwanted objects by collecting information from the neighboring 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 region filling and Object Removal by Exemplar-based Image Inpainting algorithm for exemplar-based inpainting method 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. Our experimental results show that our method improves the quality of image inpainting compared with the existing exemplar-based image completion algorithms.

References

1. Ankur Patel, Shashwat Kumar, and Ankit Prajapati, “Analysis of Exemplar-based Image
Modified Region Filling and Object Removal by Exemplar-based Image Inpainting


Index Terms

Computer Science Image Processing
Keywords

Object Removal, Image Inpainting, Texture Synthesis, PDE, gradient similarity metric