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A Review of image mosaicing using harris corner detection techniques

^{*1}Dr. Neetesh Raghuwanshi, ²Sharique Equbal, ³Shaba Sankar

Department of Electronic & Communication Engineering,
 BITS Bhopal,

**Corresponding Author: Dr.Neetesh Raghuwanshi
 Email: neetraghu25@gmail.com*

Abstract:

Image Mosaicing algorithm based on random corner method is proposed. An image mosaicing is a method of combining multiple photographic with overlapping fields of view to produce a segmented panorama of high resolution image. The output of image mosaic will be the combination of two input images. In this paper we are using three step image mosaic methods. The first step is taking two input images and finding out the corners in both the images, second step is removing out the false corner in both the images and then by using homography we find its matched corner pair and we get final output mosaic. The experimental results show the proposed algorithm produces an improvement in mosaic accuracy, efficiency and robustness.

A technique for creating a single, larger image from several smaller ones of the same scene is called image mosaicing. The union of the two input images will be the image mosaic's output. Algorithms for image-mosaicing are used to create mosaiced images. The technique of image mosaicing is essentially broken down into five stages. This comprises the following: image registration, feature point extraction, calculating homography, warping, and blending an image. Different corner detection algorithms are employed in the process of feature extraction. This corner generates a mosaic image that is both effective and informative. In order to create 3D images, computer vision, and medical imaging, satellite data, and military automatic target recognition, image mosaicing is frequently employed.