Abstract

Image stitching is the process of combining two or more images with overlapping area to produce a panorama of input images. In order to improve performance of creation of panorama, approach that combine different keypoint extraction methods can be used.

This paper proposes a methodology for image stitching process that combines various feature detection and extraction algorithms. First, image stitching will be done based on feature keypoint matches. Final image with seam will be blended with image blending technique.

The paper summarizes 3 robust feature detection and extraction algorithms namely SURF, SIFT and MSER. Combined set of keypoints will be used for image transformation. According to proposed system, multiple feature extraction techniques can be used for image stitching which can build seamless panorama image.
Multiple Feature Extraction Techniques in Image Stitching

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Index Terms

Computer Science Image Processing
Keywords

Keypoints, Detectors, Descriptors, SURF, SIFT, MSER, RANSAC, FLANN