An Effective Approach of Shadow Detection and Removal using Edge Detection and Bilateral Filtering

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Abstract

Here in this paper automatic Shadow detection with Shadow Removal technique is implemented. The planned procedure implemented is based on the concept of identifying the Shadow region for the recognition of Shadow and then applying Filtering over the region to eliminate the silhouette consequence from the image. The planned procedure implemented here works in Two Stages, in the first stage Hybrid technique of arbitrary Walker Segmentation with Canny Edge Detector and bilateral filtering is applied in next Stage. The planned method implemented here is applied over dataset and the scheme provide better Positive rate and High True Positive rate and low error rate.

References


Index Terms

Computer Science  
Image Processing

Keywords

Shadow Detection, Shadow Removal, Canny Edge Detection, Bilateral Filtering, Random Walker Segmentation.