Abstract

The season affects the imaging of the hill station highly and all other reasons moreover time to time. Our universal defogging method that determining the atmospheric light and produces a spread map in the YCbCr color channels. With this relative depth information we can construct the corresponding atmospheric light to restrain the edge halation. We generate the spread map by estimating the atmospheric light except a continuous region which has no edge information. The method performs a per-pixel manipulation, which is straightforward to implement and then apply the Guided filter to improve the image quality. The experimental results demonstrate that the method yields results comparative to and even better than the more complex state-of-the-art techniques, having the advantage of being appropriate for real-time applications.

References

Image Dehazing (Defogging) by using Depth Estimation and Fusion with Guided Filter

27th Chinese Control and Decision Conf. (CCDC), 2015, pp. 3964 - 3969.


Index Terms

Computer Science  Image Processing

Keywords

Image Fusion, Image Defogging, Scattering model, single image defogging