
COMP 6771 Image Processing: Assignment 2

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1 Review

1.1 Review of Bilateral Filter

Bilateral Filter is one of the most important filter method which presented by Tomasi in 1998. The bilateral filter smoothing image and preserve edges information at the meanwhile.

The main method that the bilateral filter utilized are two Gaussian filters. One is calculated based on the Geometric closeness. Another is calculated based on their photometric similarity

1.2 Review of another paper

2 Re-implement of Bilateral Filter

In this section, we will firstly present the result of our re-implement method, and then compared the bilateral filter with other baseline algorithm in terms of other low pass filters that usually blur the image but also blur edges

2.1 Result of the Re-implement algorithm

In this section, we will use the images in the paper[cite here] to show our result that has successfully achieve the main goal which introduced by the paper.

2.2 Compare with other baseline algorithm