

Contour-guided Image Completion with Perceptual Grouping

We would like to provide readers with additional examples of the use of stochastic completion fields (SCFs) in the applications mentioned in the body of this article. Additionally, we are providing the source code that we used to generate SCFs in our results.

Code

Our software framework is made open-source and is available on GitHub (https://github.com/sidguptacode/Stochastic_Completion_Fields).

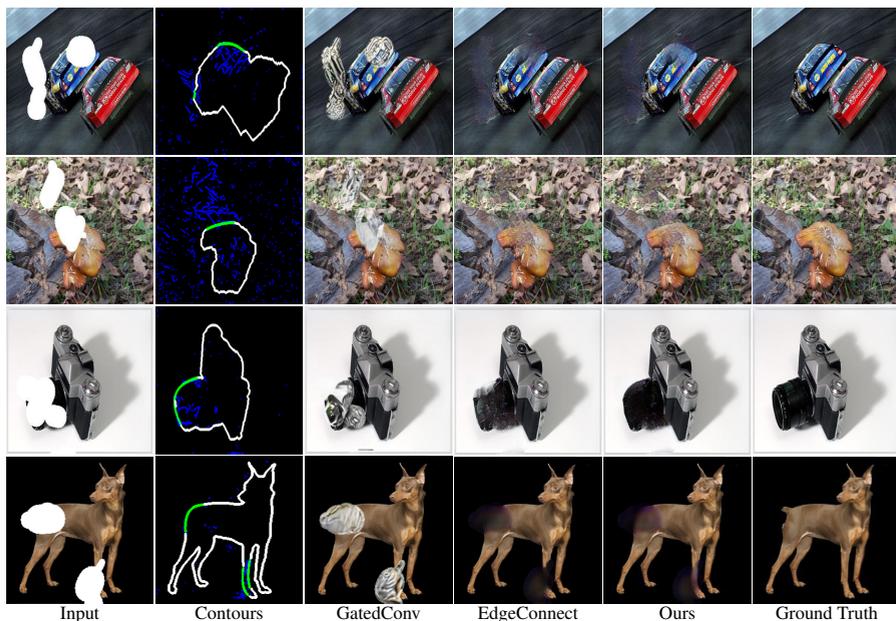
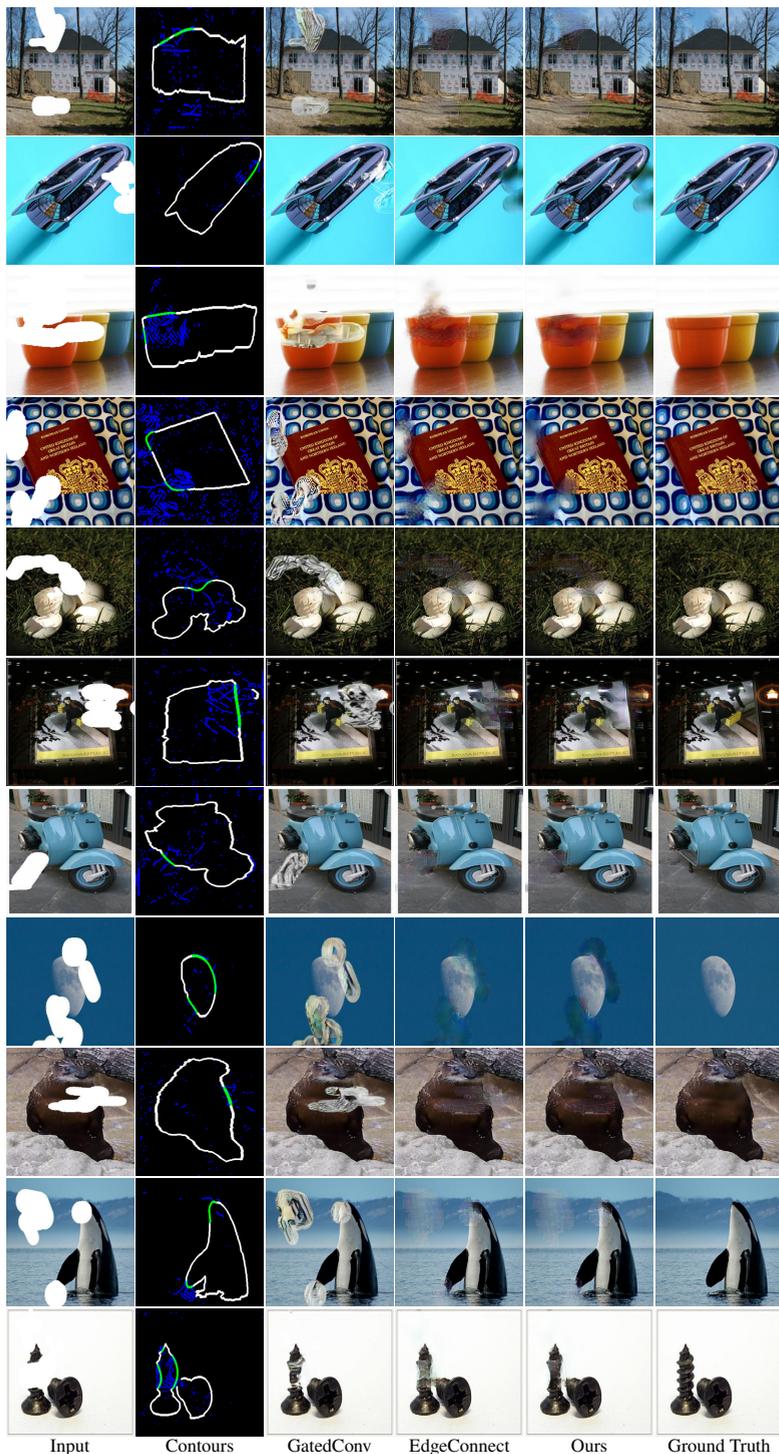


Figure 1: Results comparing between in-painting methods, including EdgeConnect (EC) that uses contour guidance. In ours, we complete edges using SCF to provide guidance in addition to the hallucinated contours generated by EdgeConnect. Please note that in the second column, our SCF contours are shown in “green” and the contours hallucinated by EdgeConnect are shown in “blue”. See the supplementary materials for more examples.



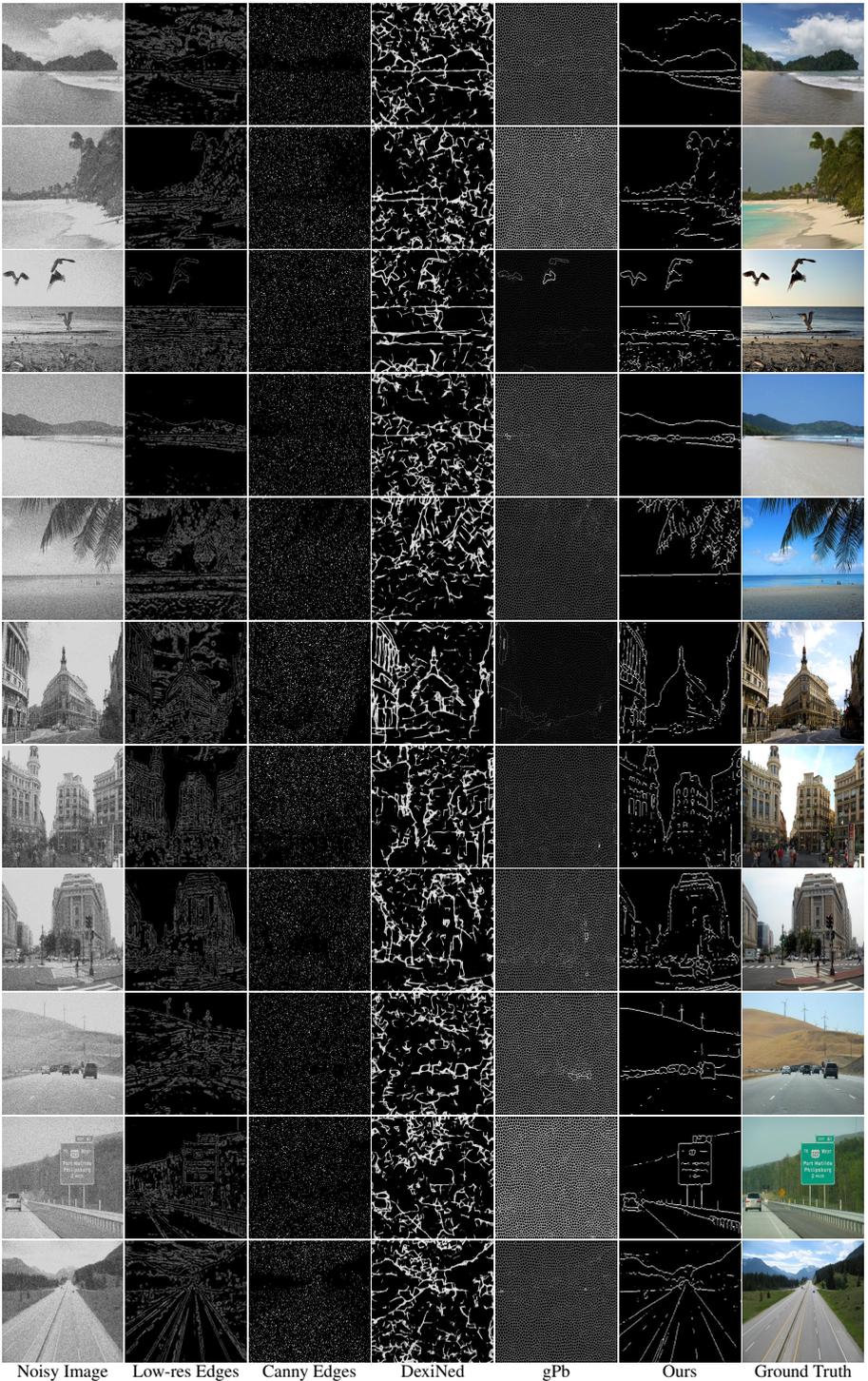


Figure 3: More examples of detecting the edges of noisy images. Gaussian noise was added to low-contrast images of letters (with $\sigma = 39\%$ of the range of the pixel values) and scenes (with $\sigma = 79\%$).

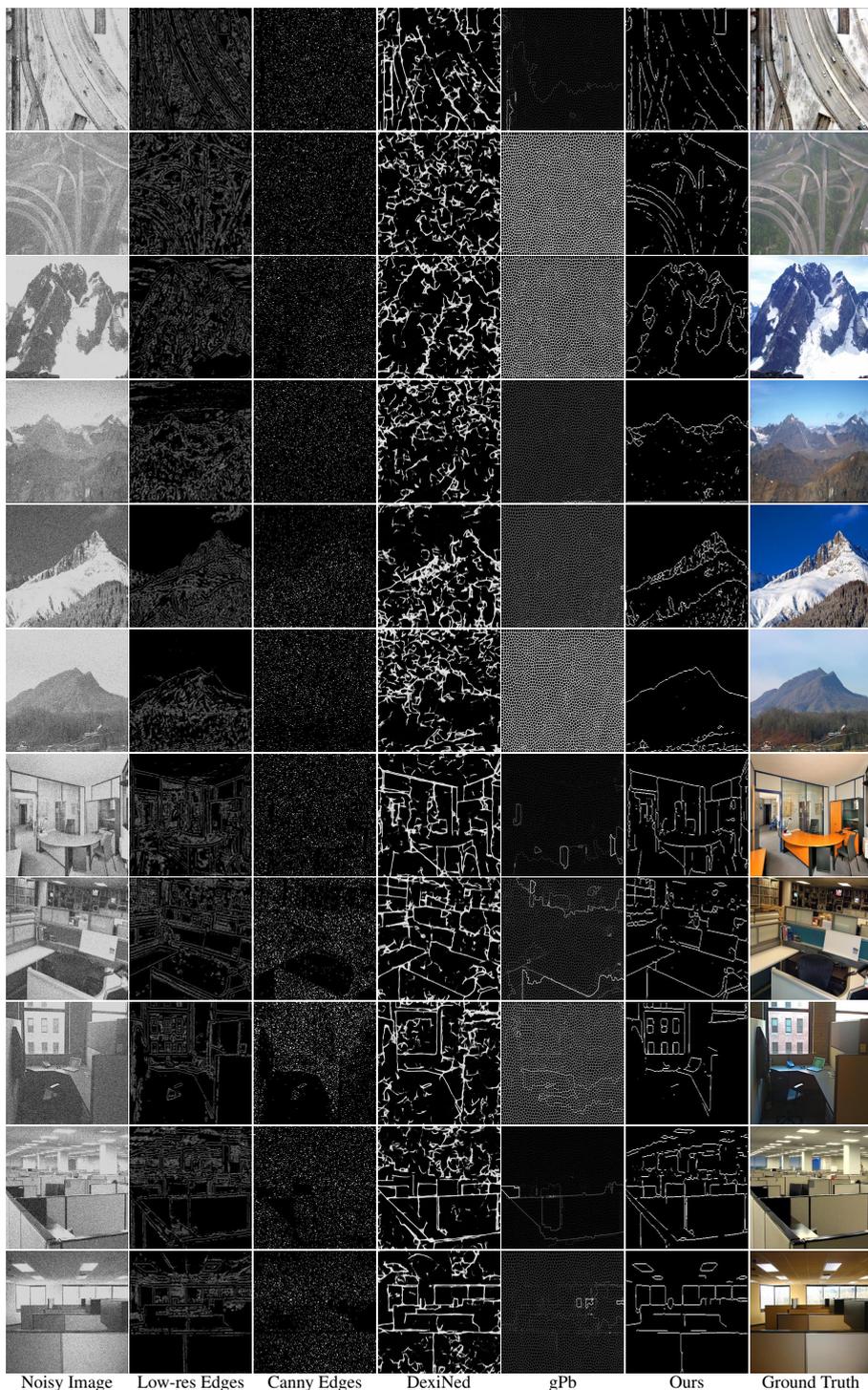


Figure 4: More examples of detecting the edges of noisy images. Gaussian noise was added to low-contrast images of letters (with $\sigma = 39\%$ of the range of the pixel values) and scenes (with $\sigma = 79\%$).