

# Fast End-to-End Trainable Guided Filter

## Supplementary Material

<https://github.com/wuhuikai/DeepGuidedFilter>

## References

- [1] M. Aubry, S. Paris, S. W. Hasinoff, J. Kautz, and F. Durand. Fast local laplacian filters: theory and applications. *ACM TOG*, 35:1–14, 2014.
- [2] D. Berman, T. Treibitz, and S. Avidan. Non-local image dehazing. In *CVPR*, 2016.
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- [7] X. He, R. S. Zemel, and M. Carreira-Perpinan. Multi-scale conditional random fields for image labeling. In *CVPR*, 2004.
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- [10] L. Xu, C. Lu, Y. Xu, and J. Jia. Image smoothing via l0 gradient minimization. *ACM TOG*, 30, 2011.

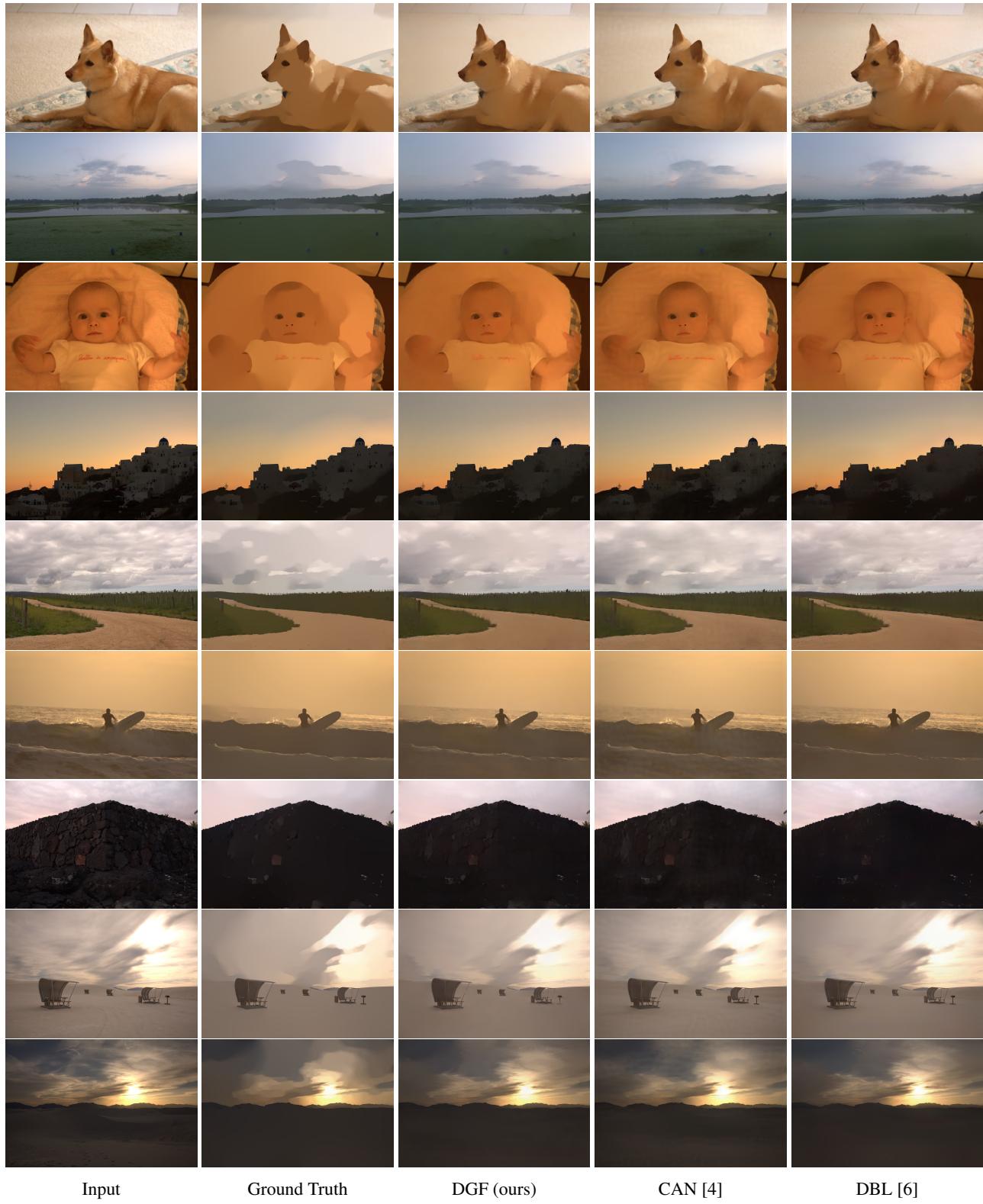


Figure 1: **Qualitative Results for  $L_0$  smoothing [10].** Best viewed in color.

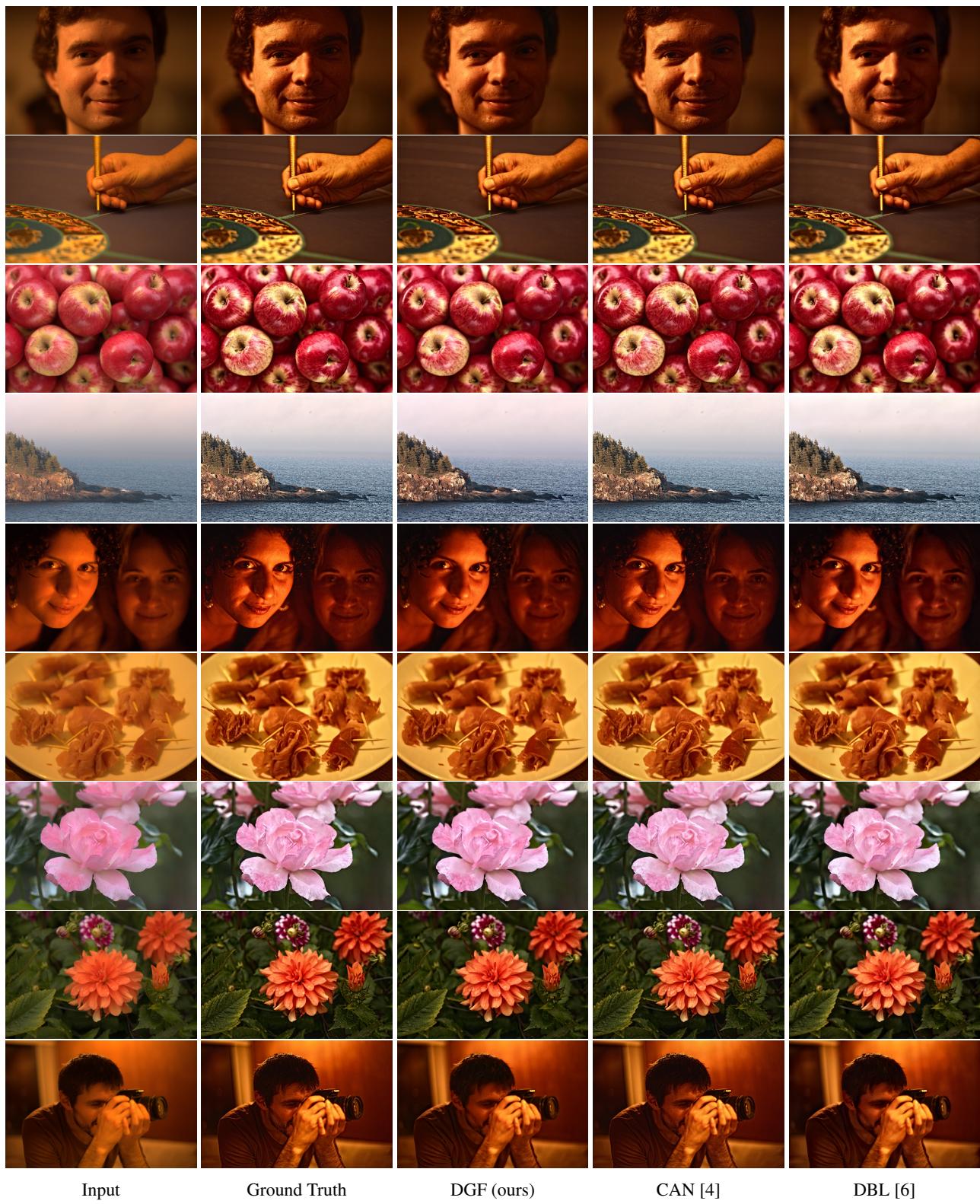


Figure 2: **Qualitative Results for multiscale detail manipulation [5].** Best viewed in color.

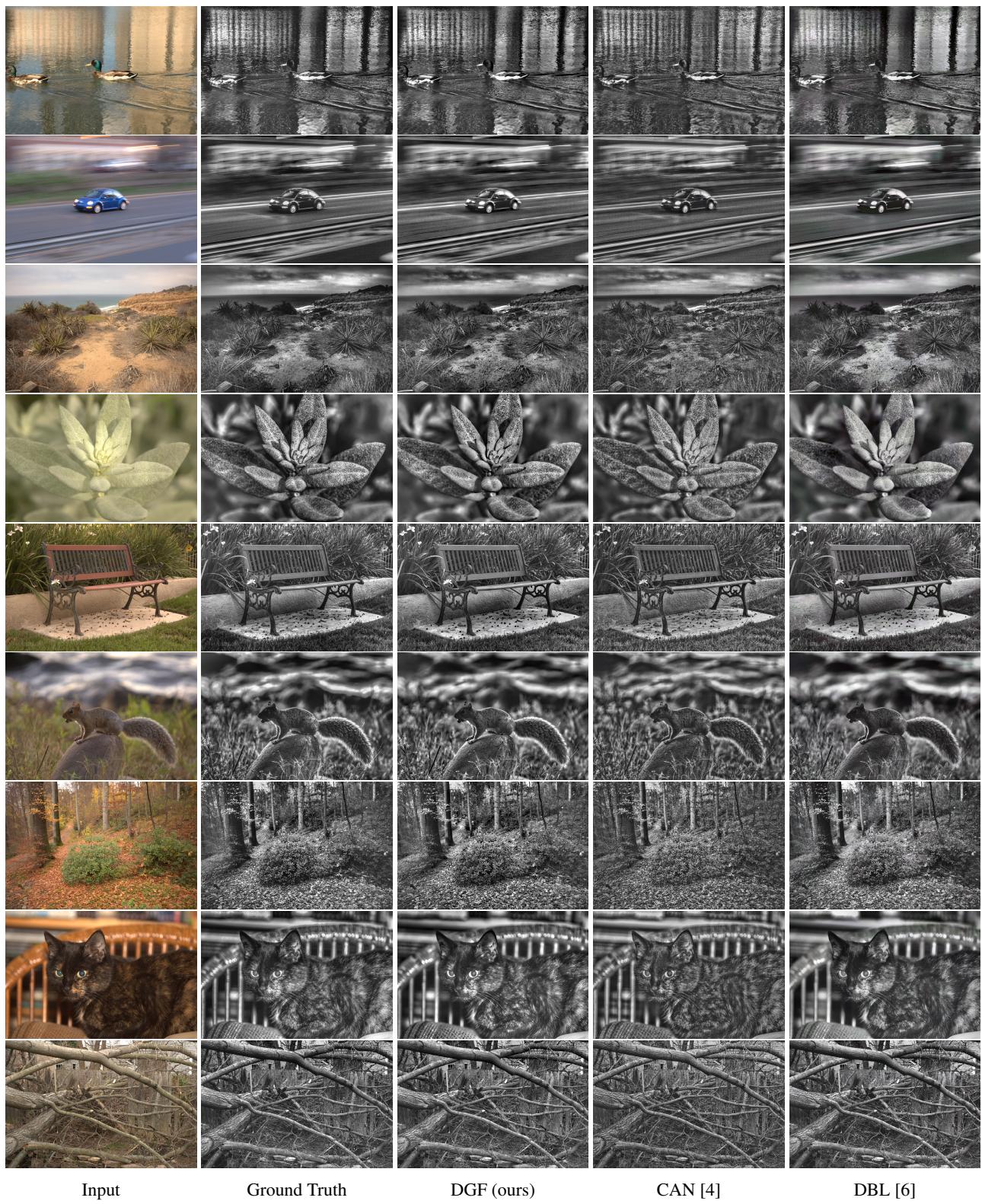


Figure 3: **Qualitative Results for photographic style transfer [1].** Best viewed in color.

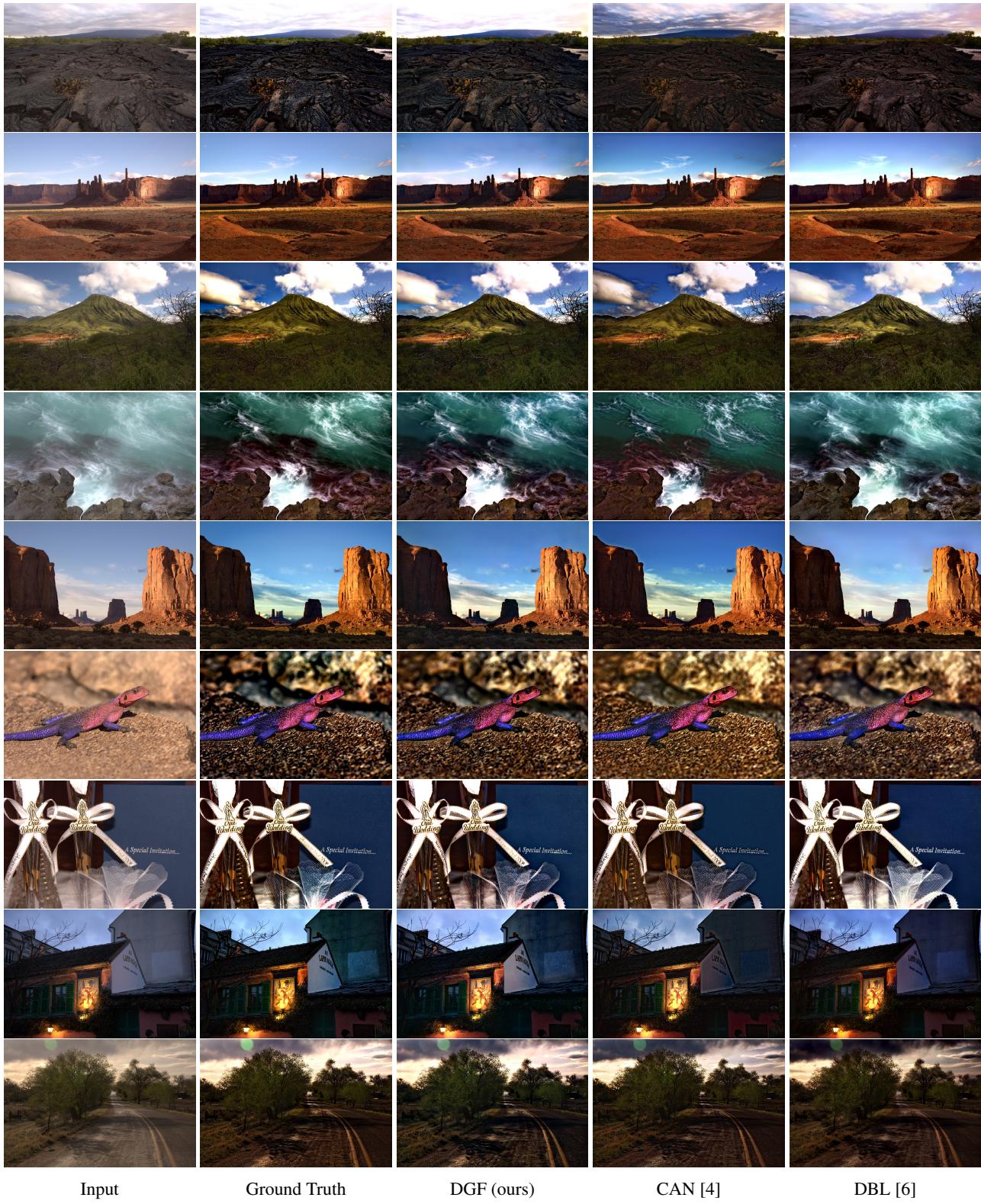


Figure 4: Qualitative Results for non-local dehazing [2]. Best viewed in color.

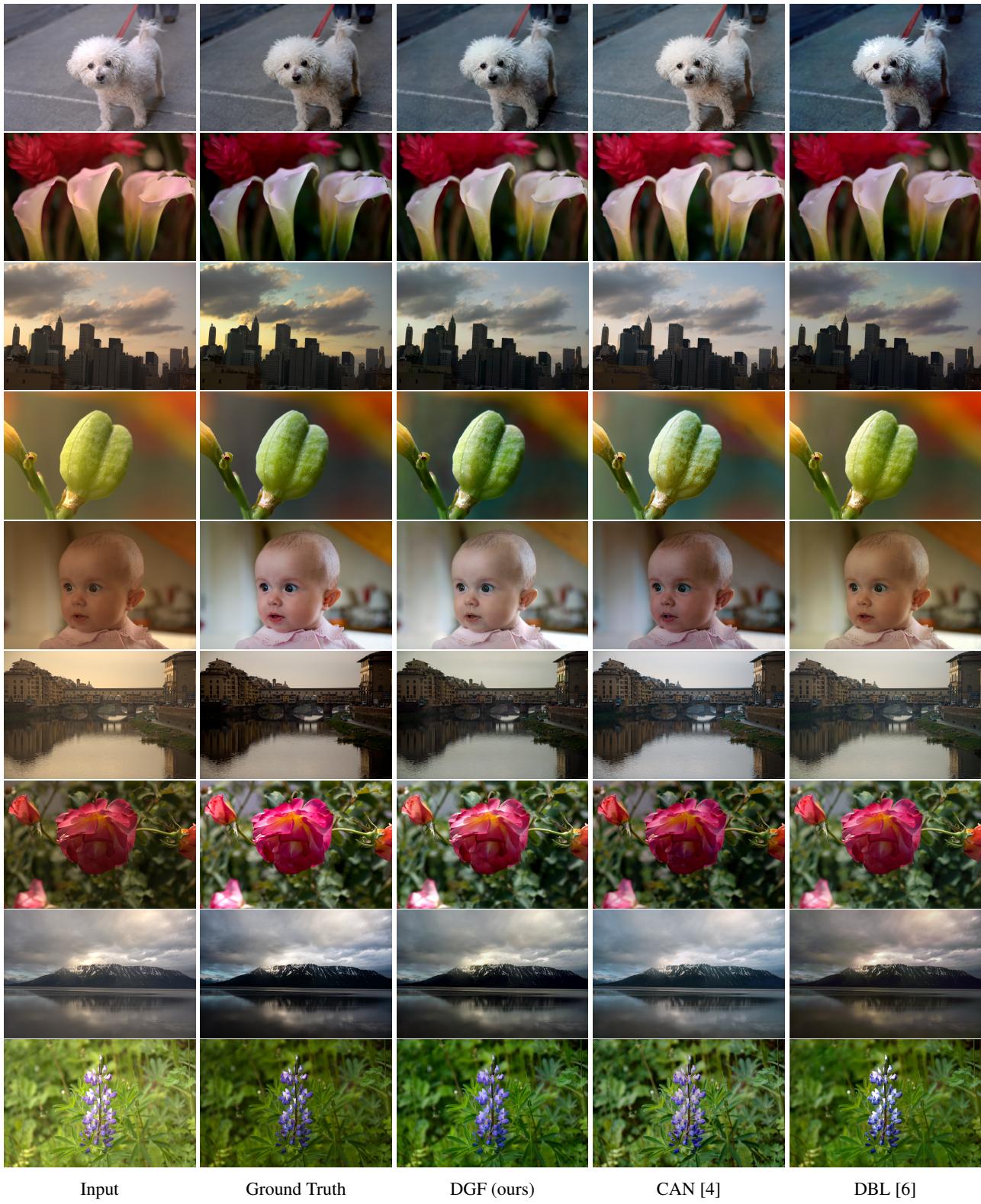


Figure 5: **Qualitative Results for image retouching learning from human annotations [3].** Best viewed in color.

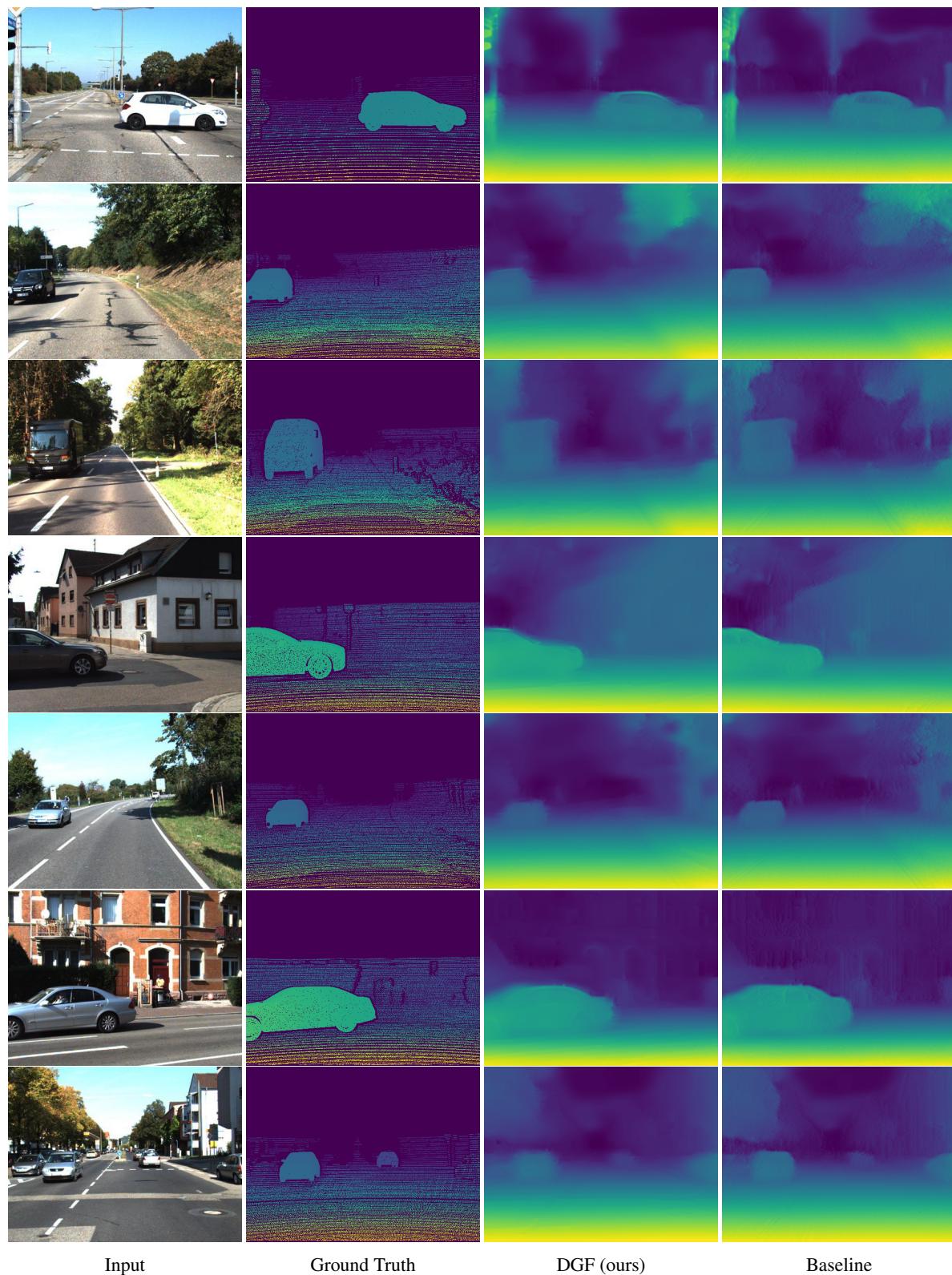


Figure 6: **Qualitative Results for depth estimation from a single image [9].** Best viewed in color.

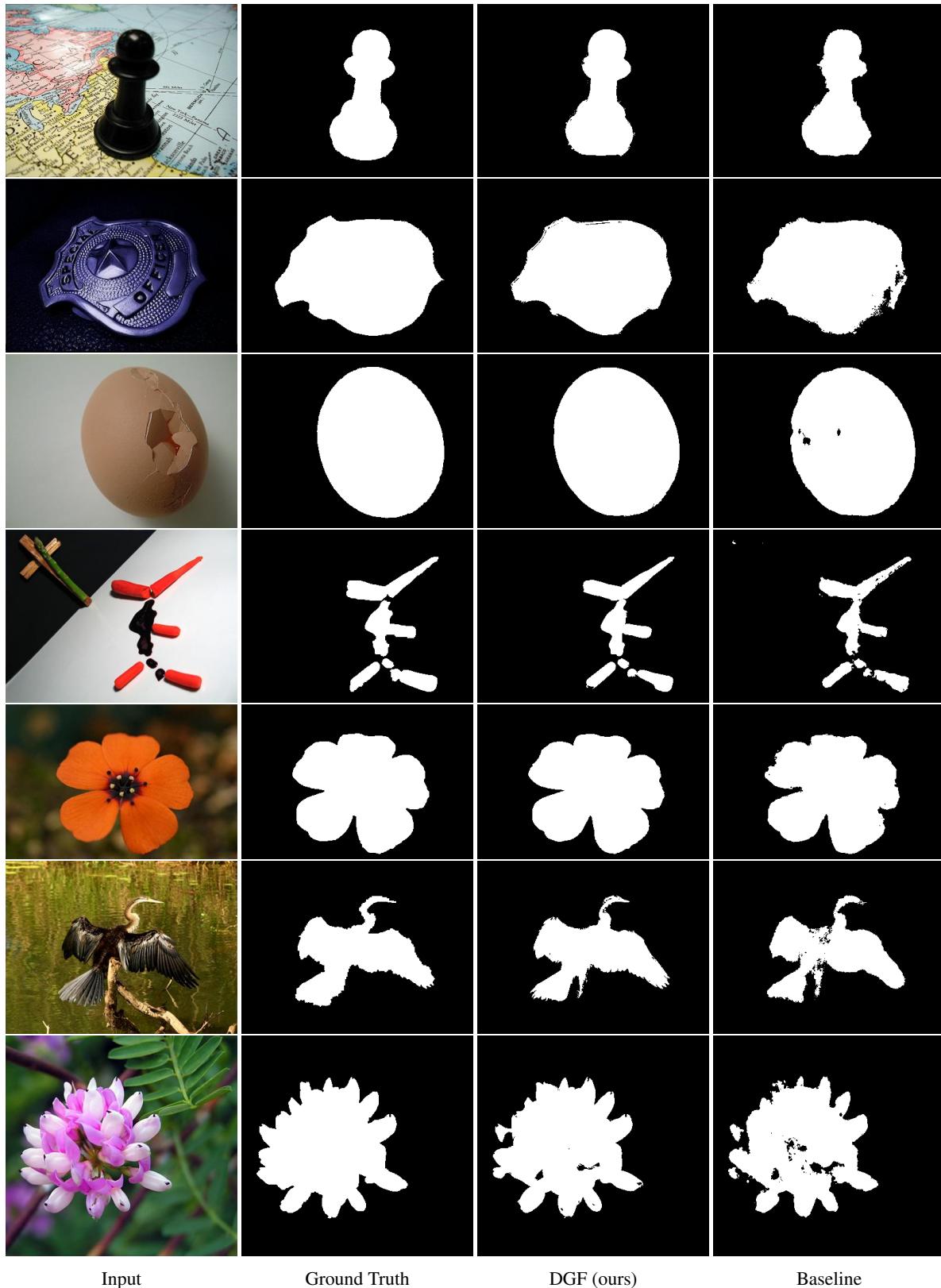


Figure 7: Qualitative Results for saliency object detection [8]. Best viewed in color.

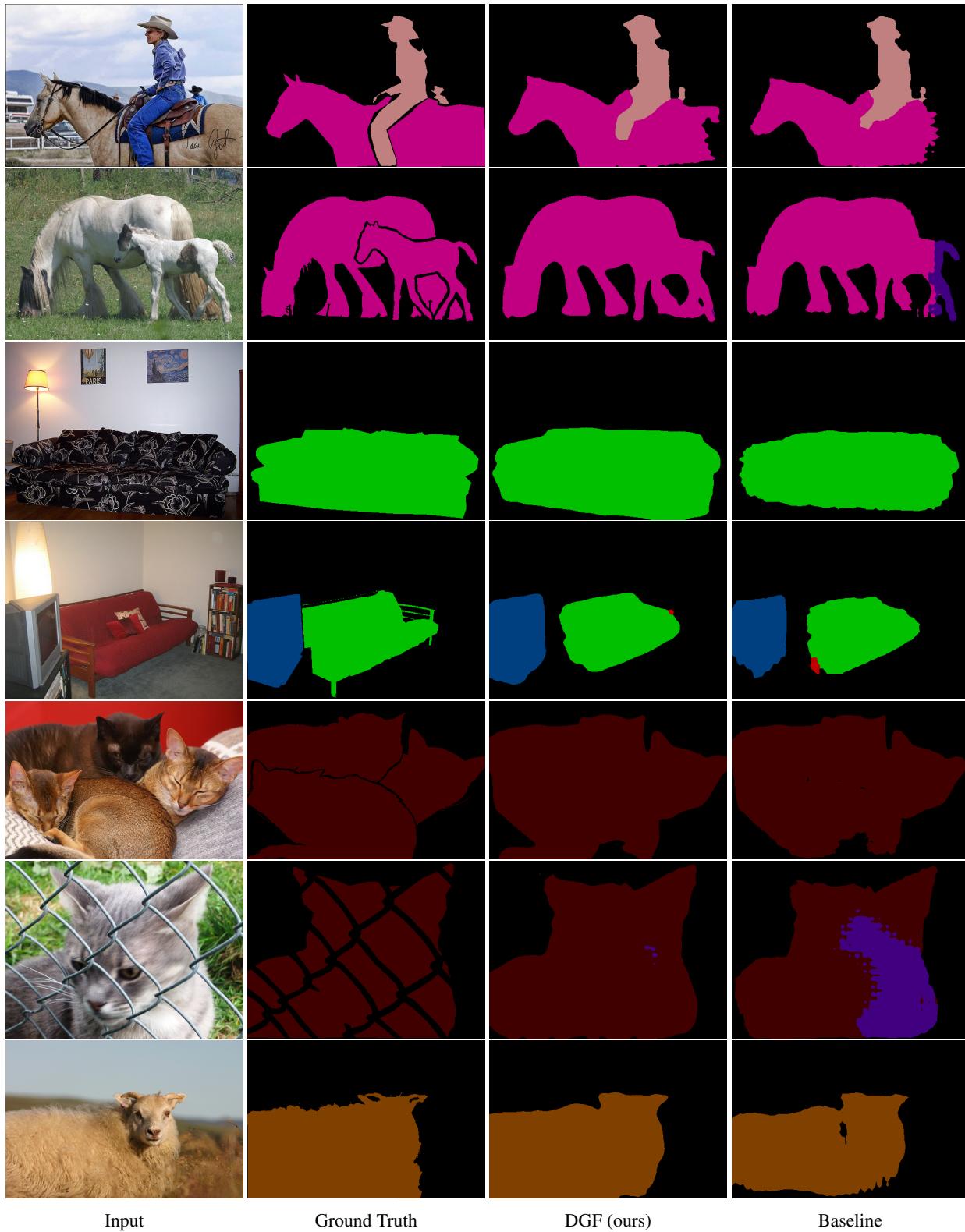


Figure 8: Qualitative Results for semantic segmentation [7]. Best viewed in color.