

Image Matting with Local and Nonlocal Smooth Priors

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Original

Robust[1]



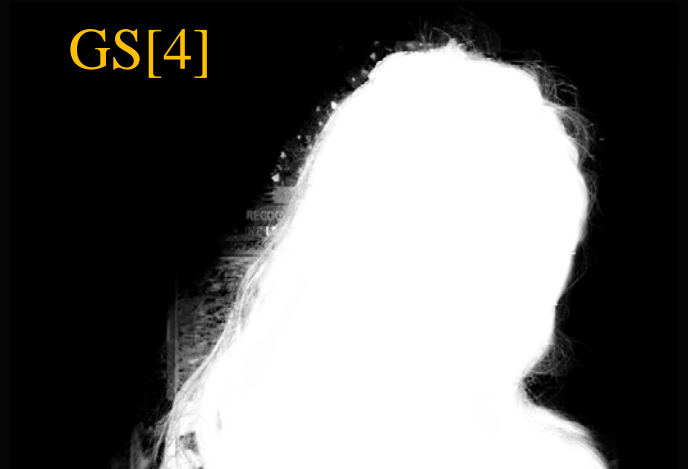
Shared[2]



CF[3]

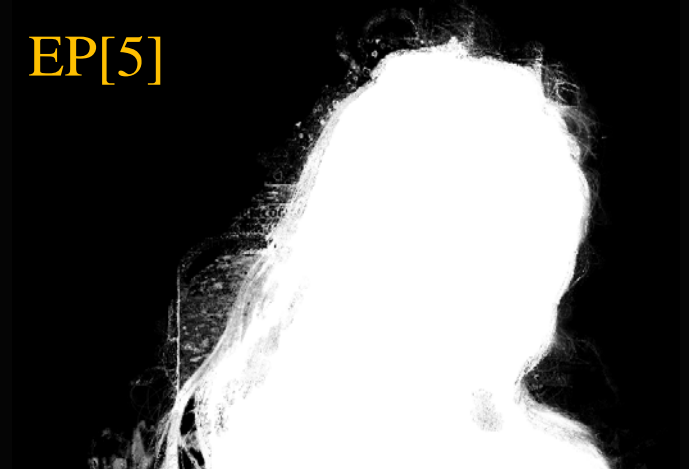


GS[4]



Trimap

EP[5]



Ours



Robust: Robust matting
Shared: Shared matting
CF: Closed-form matting
GS: Global Sampling matting
EP: Editing Propagation



Original

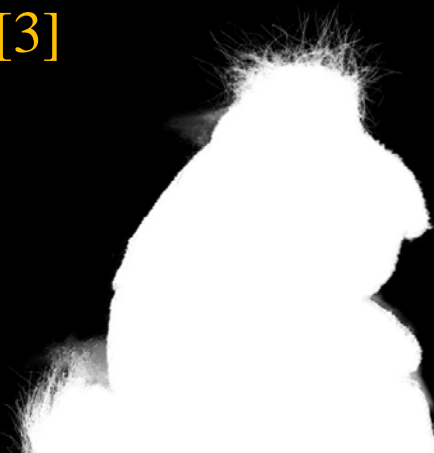
Robust[1]



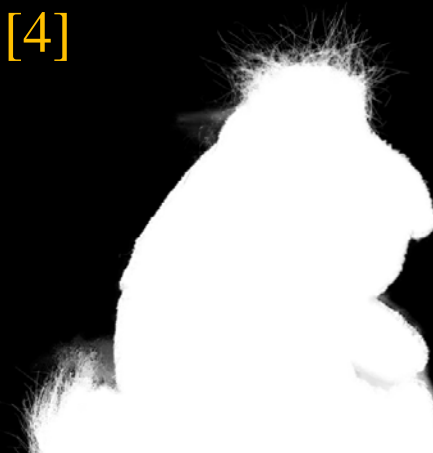
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CF[3]

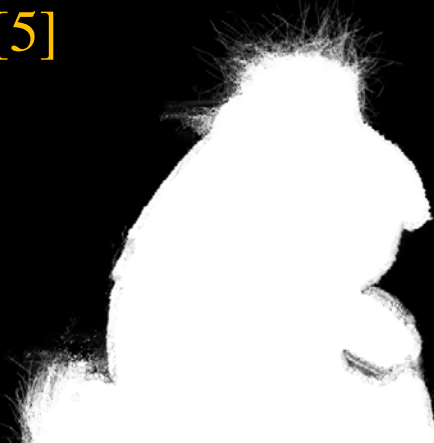


GS[4]

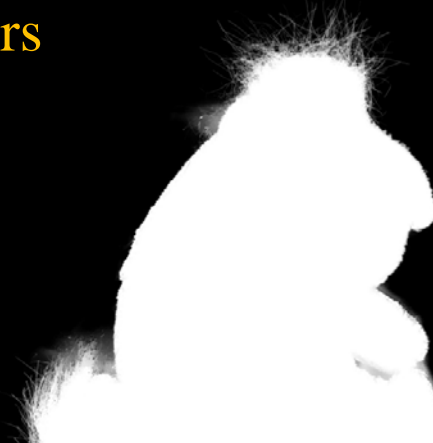


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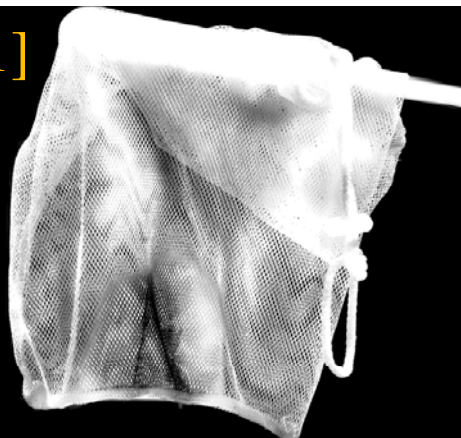


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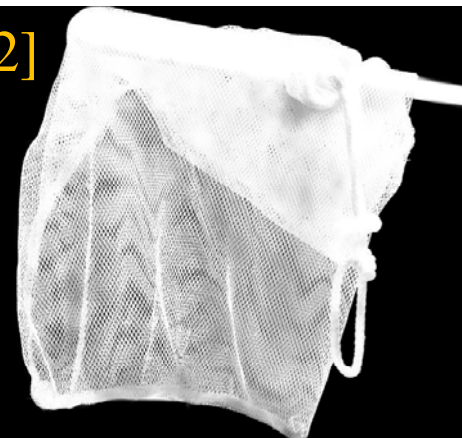


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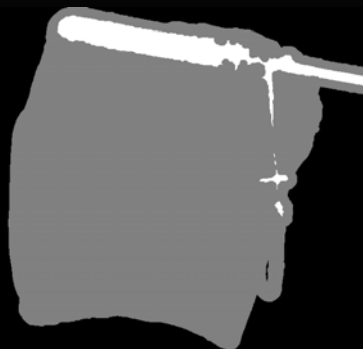
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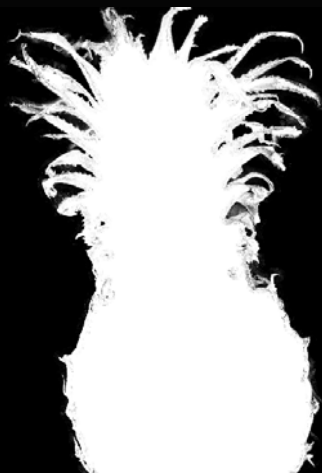
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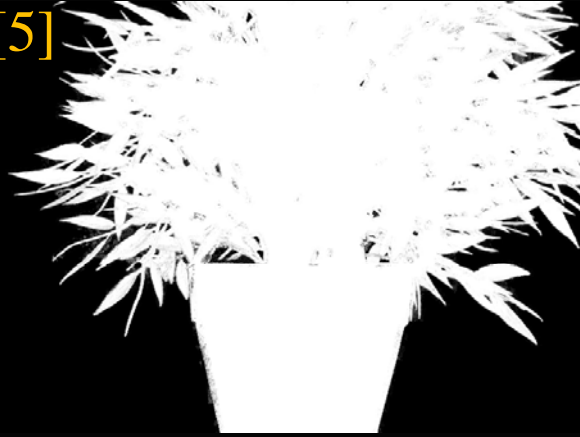
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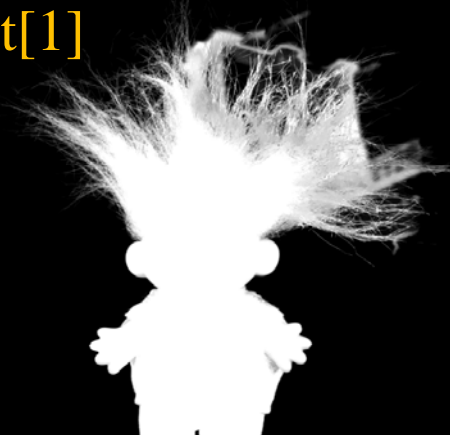


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References

- [1] J. Wang and M. F. Cohen. Optimized color sampling for robust matting. In CVPR, 2007.
- [2] E. S. L. Gastal and M. M. Oliveira. Shared sampling for realtime alpha matting. *Comput. Graph. Forum*, 29(2):575–584, 2010.
- [3] A. Levin, D. Lischinski, and Y. Weiss. A closed form solution to natural image matting. In CVPR, pages 61–68, 2006.
- [4] K. He, C. Rhemann, C. Rother, X. Tang, and J. Sun. A global sampling method for alpha matting. In CVPR, pages 2049–2056, 2011.
- [5] X. Chen, D. Zou, Q. Zhao, and P. Tan. Manifold preserving edit propagation. In *ACM Transaction on Graphics (Proc. of SIGGRAPH Asia)*, 2012.