NeuralBF: Neural Bilateral Filtering for Top-down Instance Segmentation on Point Clouds

Supplementary Material

A. Visualization of convex hulls in ScanNet – Fig. 11

We further illustrate the learned convex hulls in ScanNet. As shown in Fig. [1], the learned convex hulls act as the rough bounding box of the queried instance.

B. More qualitative results in ScanNet – Fig. 12

In addition to qualitative results in the main paper, we provide more qualitative results in Scannet.

C. Interactive 3D visualization

We further provide the interactive visualization of convex hulls and instance segmentation. It's available at our project website: https://neuralbf.github.io



Figure 11. **Visualization of convex hulls on ScanNet** – Note we visualize only some of the hulls to reduce visual density. We visualize the wireframe of the hulls for better visibility. And we color the points according to the instance prediction.



Figure 12. More qualitative results on ScanNet – Instance segmentation results in the validation set.