

Supplemental Material for “PrimitiveNet: Primitive Instance Segmentation with Local Primitive Embedding under Adversarial Metric”

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1. Primitive Segmentation Visualization

In this section, we visualize more primitive instance segmentation results produced by our method. Figure 1 and Figure 2 shows our predictions on ABC dataset [5] and our self-collected scene dataset, respectively.

Our method can extract small instances with complex structures correctly (Figure 1). By learning only local surface properties, our features are rich enough to recover unlimited number of instances in challenging scene environments shown in Figure 2. Finally, we can merge chunks of scenes seamlessly to handle input at very large scale. Figure 3 primitive segmentation of several merged large scenes using our methods.



Figure 1. Primitive instance segmentation visualization using our method on ABC dataset.

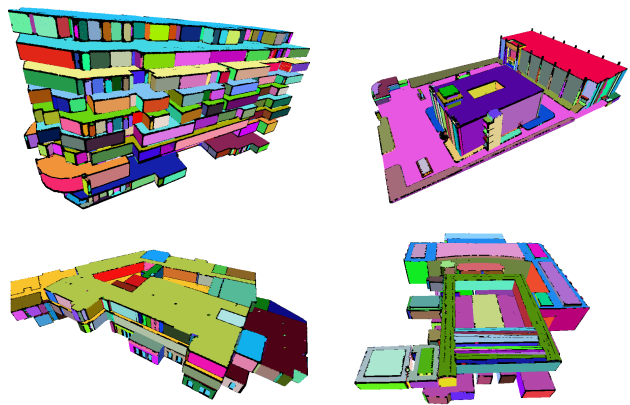


Figure 3. Primitive instance segmentation visualization on large scenes.

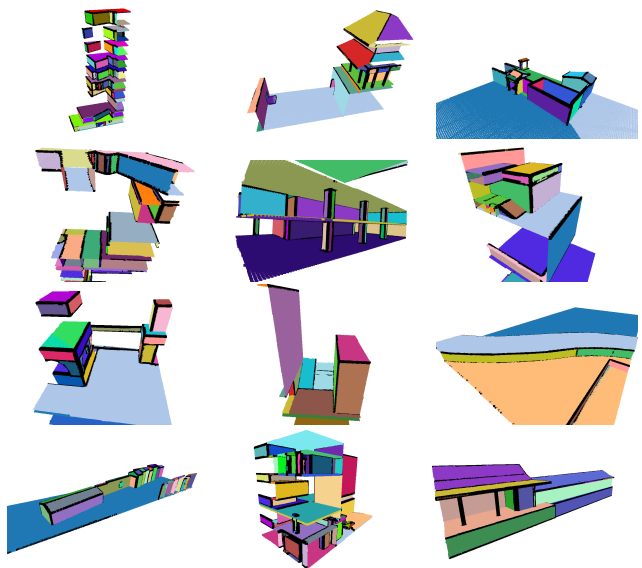


Figure 2. Primitive instance segmentation visualization using our method on self-collected scene dataset.

