

Unsupervised Learning of Intrinsic Structural Representation Points (Supplementary Material)

1. Affect of Structure Point Numbers

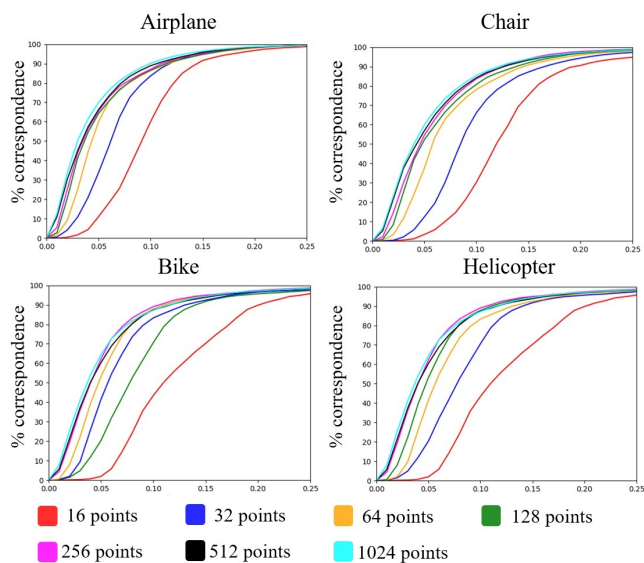


Figure 1: Affect of different structure point numbers on correspondence accuracy.

We evaluate the effect of using different numbers of structure points on correspondence accuracy. In Figure 1, we show correspondence accuracy with regard to different numbers of structure points on the aligned BHCP dataset. The plots indicate that the correspondence accuracy can be improved by increasing the number of structure points. And the accuracy reaches a plateau at about 256 structure points.

2. Visualization of PCA Embedding Spaces

Figure 2 shows the PCA embedding spaces for four categories by adding the PCA principle components to the mean shapes with ratio from -3σ to 3σ . The first two components are used for each category.

3. Segmentation Label Transfer Results

Figure 3 shows some qualitative results by transferring segmentation labels from 3 exemplars for each category.

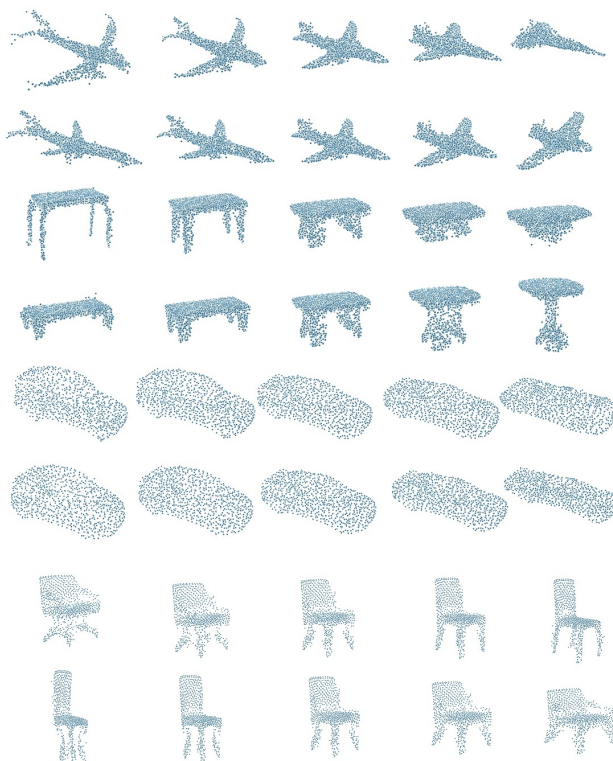


Figure 2: Visualization of PCA embedding spaces by adding the PCA principle components to the mean shape with ratio from -3σ to 3σ .

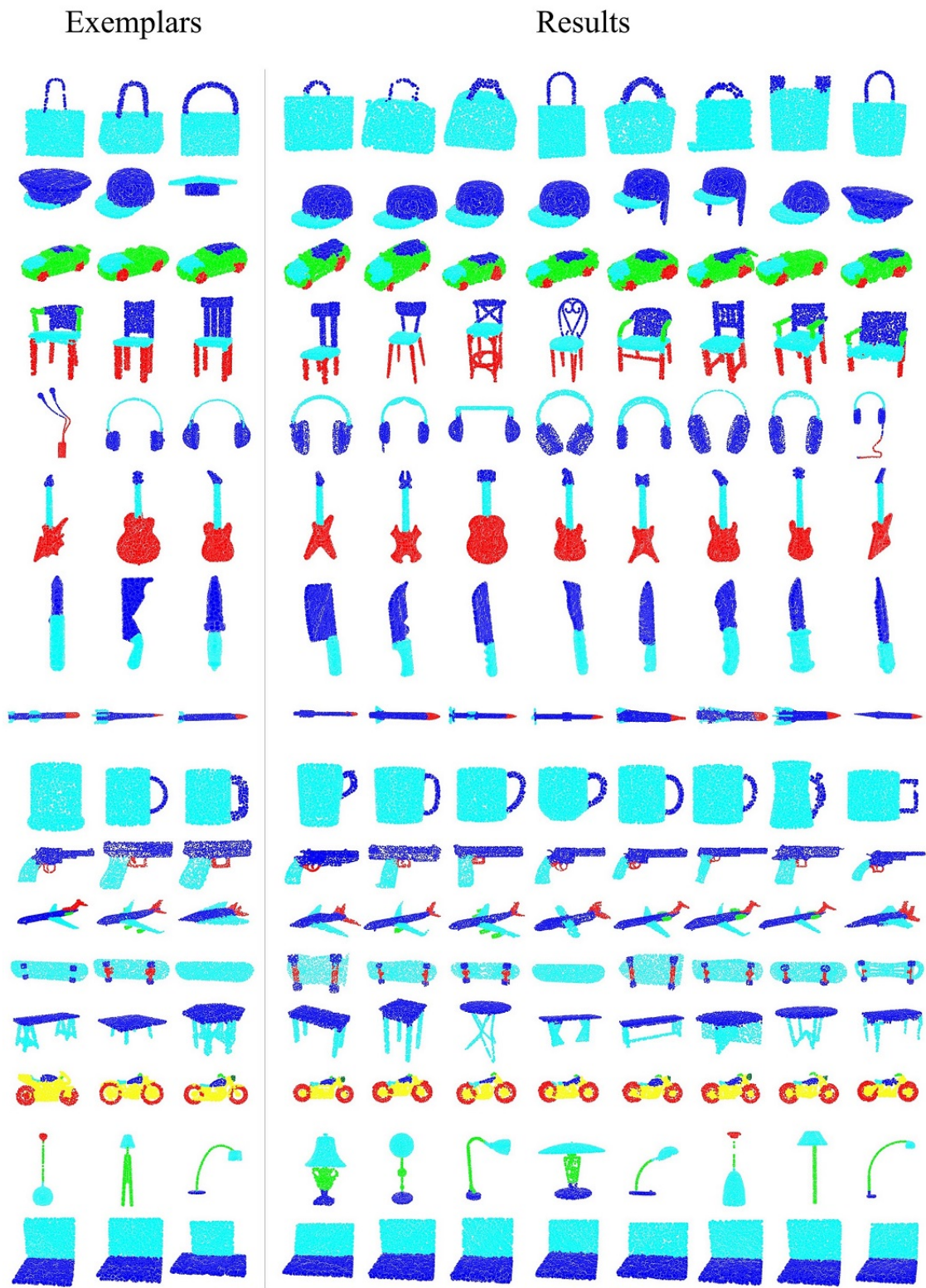


Figure 3: Qualitative results about segmentation label transfer.