

ABSTRACT

Provided are an instance segmentation method, apparatus and device, a storage medium, and a program product. The method includes: performing semantic prediction and centroid shift prediction on to-be-segmented point cloud by using a first backbone network, to obtain a semantic prediction result and centroid shift vector of each point; performing multi-level objectness prediction on the to-be-segmented point cloud by using the second backbone network, to obtain multi-level point cloud; moving each point of the multi-level point cloud to a predicted center according to the centroid shift vector, to obtain influence point cloud; clustering core points of the influence point cloud according to the semantic prediction result, to obtain at least one core point cloud of each semantic category; and clustering edge points in the influence point cloud into target core point cloud of the corresponding semantic category, to obtain an instance segmentation result.

[Figure 1]