1) General radar system design

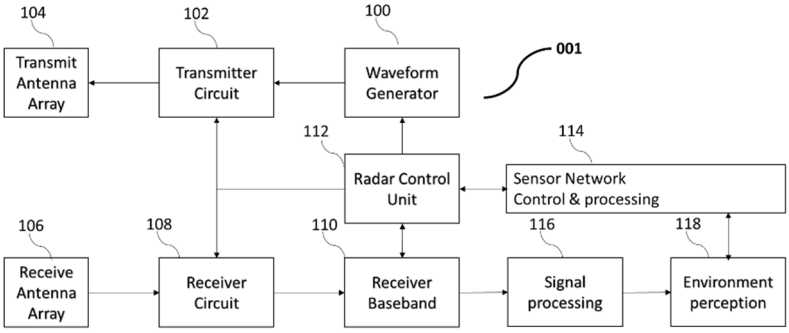


Figure-1: Radar system architecture

2) Signal processing unit

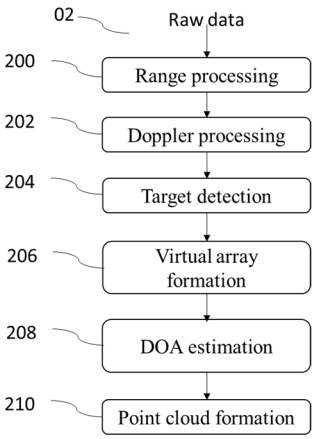


Figure-2: Functionality blocks in the signal processing unit.

3) Functional blocks in the compact environment perception unit

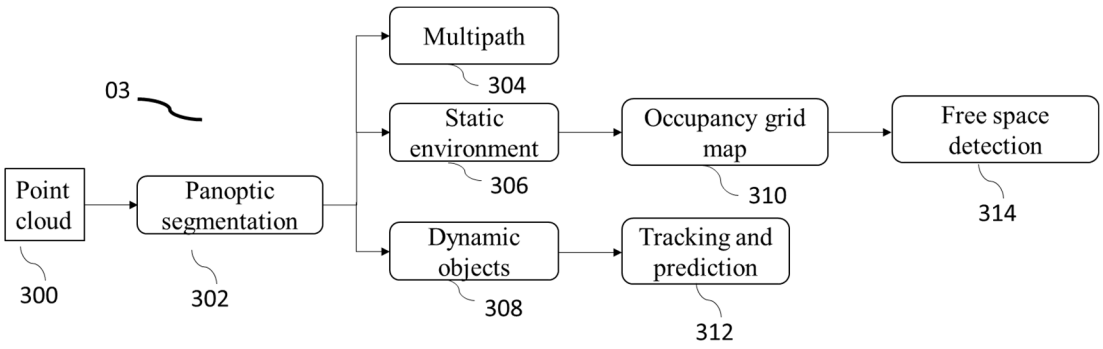


Figure-3: Environment perception

4) Panoptic segmentation

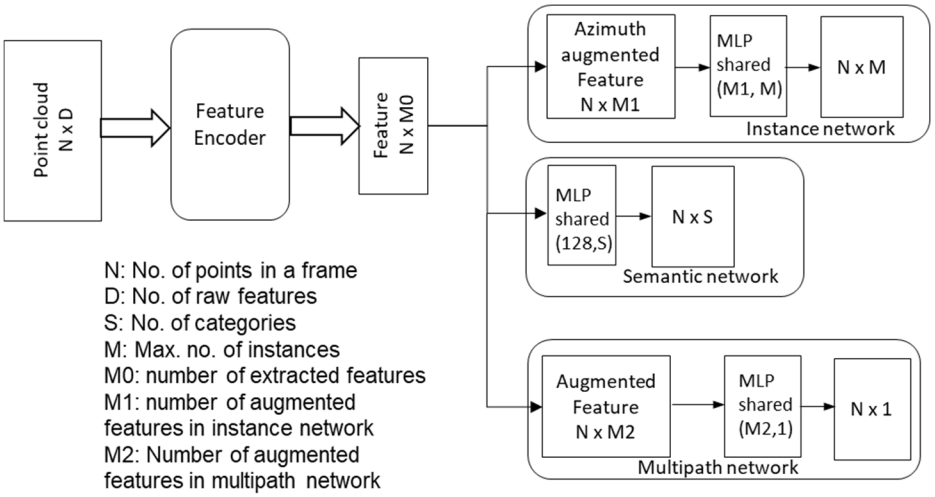
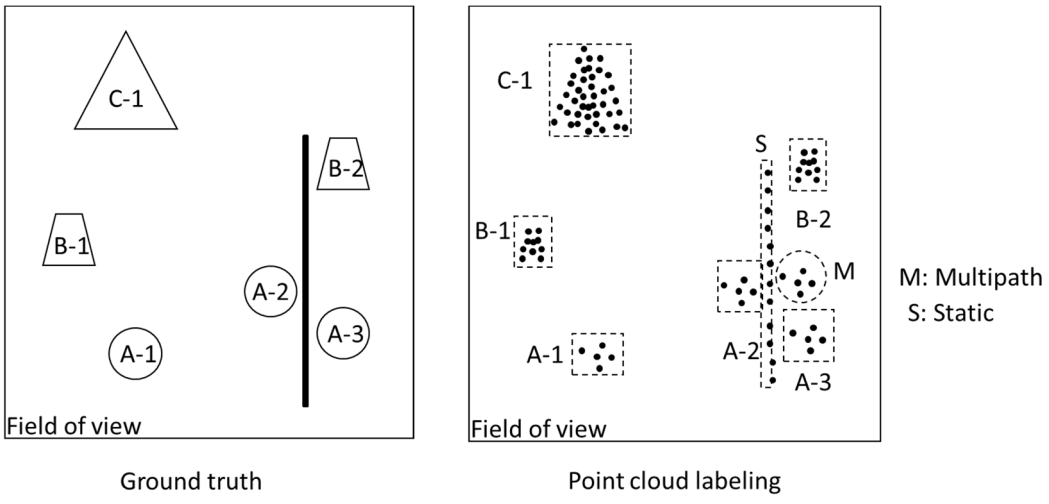


Figure-4: Block diagram of the panoptic segmentation.

5) Panoptic segmentation labeling



(a) (b)

Figure-5: Point cloud labeling method for panoptic segmentation