ABSTRACT

The present application provides a vehicle control method, apparatus and vehicle based on detection of a port vertical transport target. The method is applied to a vehicle. First point cloud data of a region above the vehicle is acquired, then second point cloud data located in the region of interest of the spreader or the grabbed object is determined from the first point cloud data according to the first point cloud data and a pre-determined region of interest of a spreader or a grabbed object in a lifting device, and position information and grabbing state of the spreader corresponding to the second point cloud data are determined according to feature information of the second point cloud data, and the moving and stopping state of the vehicle is controlled according to the position information and the grabbing state. In this technical solution, the acquired point cloud data is filtered from the region of interest of the spreader or the grabbed object, to improve the efficiency of subsequent processing. Then, after feature extraction is performed based on the filtered point cloud data, corresponding processing is performed to obtain the position information and the grabbing state of the spreader, thereby more accurately realizing the determination of the starting and stopping state of the vehicle.

[FIG. 1]