

ABSTRACT

The present invention provides a method for detecting stationary objects by vehicles moving at high speed. The method is applied to a vehicle, which includes an on-board computer, a depth image capture unit, a laser image capture unit, and an optical image capture unit. When the vehicle moves at a first speed, the depth image capture unit, the laser image capture unit, and the optical image capture unit captures a depth image, a laser image, and an optical image. The on-board computer merges the depth image, the laser image, and the optical image according to give a merged image. Then on-board computer analyzes and judges the stationary object in the merged image according to an image optical flow method and generating stationary object information. The on-board computer displays alarm messages and the stationary object on the display unit of the vehicle according to the stationary object information.

Fig. 1