Pre Crash Braking System

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Abstract

The continuous advancement of the global economy has increased the number of vehicles every year. The Health Organization (WHO) report shows that more than 50 million people are injured and approximately 2.5% of them die in road traffic accidents every year. According to the statistics, approximately 90% of the total road traffic accidents are caused by drivers' operating errors due to experience and irregular driving behaviors (drunk or fatigued driving). In most cases, the driver is unaware of the risk of collision, or the reaction time is too short to deal with the imminent collision properly. As the sensor and control technologies progress continuously, the ADAS allows drivers to identify potential dangers in different scenarios promptly, thereby improving driving safety. As a prominent example, the AEB system leverages on-board sensors (such as millimeter-wave radar and/or camera) to perceive the downstream traffic condition and evaluate the potential collision risk with remote vehicles, pedestrians, or other traffic participants at the front.

Keywords: GPS Module, SMS, Navigation, IOT, Cloud storage, Time efficiency.