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(57) Abstract :

The proposed invention relates to a system (100) for detecting objects and nearby vehicles for avoiding a collision between a vehicle and objects or nearby vehicles in dense fog and rain, when visibility is low. Camera and ultrasonic sensors are positioned on the vehicle, to acquire surrounding image data, and acquired image data utilized to create a Three-Dimension (3D) map, which is displayed on a display unit (106), and if any vehicle is nearby, the driver is alerted to drive accordingly. In addition, the system (100) facilitates in detecting an accident and reporting the accident to nearby hospitals, police station and concerned person. The captured image data is analysed to determine severity of the accident.

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