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(57) Abstract:

The present disclosure provides a system for vehicle to avoid collision. The system includes, one or more image capturing devices and one or more sensors on the vehicle. A processing unit is configured to receive the captured images and information from image capturing devices and sensor, and extract information needed to determine if there is a possible danger, leading to collision, using machine learning techniques. Upon extraction, of the information, the processing unit further extracts speed, travelling route /lane and future position of nearby vehicles and attributes of the driven vehicle, such as speed, temperature and tire pressure, and transmits the extracted information to a display unit. The display unit, further projects the information, onto a windshield of the driven vehicle, resulting in a Head Up Display (HUD). The display is in the form of a real-time augmented reality, to assist the driver to understand easily and avoid possible collision.

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