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(57) Abstract :

The present disclosure relates to a system (100) for the detection and prevention of accidents. The system (100) is configured with a housing (102) with an image acquisition unit (104), a collision prevention unit (106), a processing unit (108), and a detection unit (110) that are communicatively coupled to each other. The image acquisition unit (104) detects the position of the driver's eye while the collision prevention unit (106) detects the position of the driver's head for drowsiness. Additionally, the processing unit (108) receives the information from the image acquisition unit (104), identifies the degree of variation of the driver's head using the collision prevention unit (106), and alerts the driver using one or more techniques. It also obtains the positioning of the driver's vehicle using the detection unit (110) and communicates this information to a server (112) to aid in emergencies.

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