Abstract

In this paper, this paper seeks an answer to the question: can a vehicle automatically report to the emergency units its position and speed when an accident is occurred? It presents an approach that relates to an accident detection and prevention system. It is particularly related to a system that sends a message to designated parties (such as vehicle owner and emergency helpers) when a certain speed has been detected and when an accident has been detected with a resulting speed below a certain threshold. The proposed system includes a microcontroller, modem, nock sensor, and speed selection box is used to send messages when a certain speed has been exceeded and when an accident has occurred and the resulting speed of the vehicle is less than a predetermined threshold. The message sent can be a text message sent over a GSM modem.

References

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**Index Terms**

Computer Science

Communications

**Keywords**

Vehicle accident, vehicle position, GSM, safety, and PIC microcontroller.