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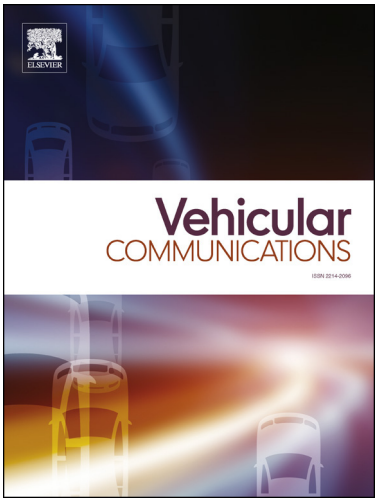

A vehicle control system using a time synchronized Hybrid VANET to reduce road accidents caused by human error

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Highlights

- This paper elaborates a vehicle control system that integrates a pedestrian unit with the vehicular ad hoc network (VANET) to create a Hybrid VANET. The new control system known as the TSH vehicle control system aims at reducing the major cause of road crash around the globe i.e. human error. The pedestrian body unit constantly broadcasts its presence to the vehicles in its communication range. On receiving a pedestrian message, the TSH vehicle controller checks it GPS coordinates, the pedestrians' position, its speed, acceleration and distance. If there is a possibility of accident occurring, it will send a control signal to the AEBS (Advanced emergency braking system). In this way the accidents can be avoided to a great extent.

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