

Development of Intelligent Safety System for Two-Wheeler Rider

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Abstract: Two-wheelers are the most economical way of transport. Owing to this, there has been an increase in the number of two-wheelers especially on Indian roads which has led to an increase in the number of accidents. One of the reason is riding triple seat as well as taking sharp turns. Keeping in mind the above problems, an integrated system is designed which will ensure the safety of riders. The integrated design consists of automatic triple seat detection and continuous tracking of the tilt of the two-wheeler with respect to the road. The components are integrated in such a way that the engine of the two-wheeler will start only if the seat occupation is in a limited range. The tilt sensing device will sense the inclination of the vehicle with respect to ground and as soon as the level goes below the threshold value of the angle of inclination, a warning beep will ring, intimating the rider that the vehicle may slip.

Keywords: Two-wheeler, Tilt, Seat Occupation, Angle of Inclination, Warning Beep, Indian Roads

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