Abstract

This project presents the design and implementation of a Car Speed Detection System aimed at enhancing road safety and enforcing speed regulations. The system utilizes image processing and sensor-based technologies to accurately measure the speed of moving vehicles in real time. By capturing vehicle motion through video surveillance or radar sensors, the system calculates speed using time-distance algorithm.

The project demonstrates how integrating modern technologies can create an efficient, automated, and non-intrusive speed monitoring solution suitable for highways, urban roads, and school zones. The results show high accuracy in speed estimation and reliability in varied environmental conditions, making it a viable tool for traffic management and accident prevention.

Keywords

Speed Detection , Vehicle Monitoring , Image Processing , Montion Detection , Computer Vision, Real time Detection.