

# **Pedestrian Crossing Monitoring and Signal Control**

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## ABSTRACT

Pedestrian Crossing is typically controlled by traffic control lights. If both drivers and pedestrians complied with signals at signal-controlled crossings and junctions, there should be no conflict between the two. However, in countries where they do not have a legal obligation to comply proposing with the signal displayed, pedestrians regularly cross against the red and even though drivers do so much more rarely, their behaviour may lead to conflicts during the intergreen periods. Most research has focussed on investigating pedestrian compliance with the signals rather than collisions.

The function of traffic lights requires sophisticated control and coordination to ensure that traffic moves as smoothly and safely as possible. Today, the density of traffic is a major part in the urban areas. As the number of road users constantly increases and resources provided by current infrastructures are limited, to intelligent control of traffic will become a very important issue in the future.

Researchers have used either image processing count techniques. The project looks at solving these issues by automatically allows one particular time delay for crossing the people through pedestrian crossing. Therefore, this system provides solution to reduce the accident in urban area. Context and it is based on embedded system.

However, no direct evidence was traced that interventions to improve pedestrian compliance,

This system is basically its handle signal control with image processing, Analyzing data and embedded System rather than the currently existing system. This system is a complete application that is built to control pedestrians signal. This system is counting of pedestrian using image of pedestrian and sends the amount to microcontroller through the serial port and control the signal. One of the special features of our system is able to change the signal time regarding pedestrian amount.