

# **Implementation of Car Counting System Using Morphological Image Processing**

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## **Abstract**

*Along with the economic development, traffic has increased enormously these days. Due to the increasing urban population and hence the number of cars, need of controlling the traffic on roads is vital. Automatic detecting and counting vehicles in video on roads is a very challenging problem in computer vision with important practical applications such as to monitor activities at traffic and then predict the traffic flow which assists in regulating traffic. In this paper, the system is proposed for counting the number of cars running on the road to analyze traffic in any region. The system applied the offline video files that captured the cars running on the roads with the help of a stationary camera. Detection of the moving object and removal of the noise is achieved by some morphological operations and the result shows the number of cars on roads is counted. This system use MATLAB Program for the implementation.*