**NAME OF THE PROBLEM STATEMENT:**

**BACKGROUND EXTRACTION AND OBJECT TRACKING IN REAL TIME VIDEO**

**TEAM SIZE : 2**

**TEAM MEMBERS:**

* CHINTHADA KAVYA SRI.
* EDUPUGANTI AKHILA.

**ABSTRACT:**

The project is about moving vehicle detection using image processing techniques.   
The video is converted into frames and each frame is treated as an image. The background is extracted based on the movement in the frames. In this project we aim to detect the moving vehicle in the traffic. As traffic management system is became a burning issue now-a-days. In this proposed technique background is extracted by frames. The object is detected using segmentation and morphological image processing algorithms. We use different techniques for moving vehicle detection such as radar sensing, ultrasonic sensing. The detected object is tracked using a bounding box technique.

**SCOPE:**

This proposed algorithm is can be applied to detect vehicle detection in roads. Suspect tracking in the dense public areas for security purpose. This algorithm can be extended to count the number of persons in shopping mall, office with their tracking details. The Block diagram of the proposed technique is as follows:

VIDEO

DISTRIBUTION

OBACKGROUND EXTRACTION

OBACKGROUND EXTRACTION

OBACKGROUND EXTRACTION

FRAME CONVERSION

DISTRIBUTION

BACKGROUND EXTRACTION

MORPHOLOGICAL OPERATION

OBJECT DETECTION

REPRESENTATION OF OBJECT

DISTRIBUTION

**TECHNOLOGIES/PLATFORMS:**

Platform: MATLAB 16 a

Processor: Core2Duo Processor, 2.20 GHz

Operating System: Windows 7 (64-bit).

**ROLE OF TEAM MEMBERS**:

* CHINTHADA KAVYA SRI – TEAM LEADER
* EDUPUGANTI AKHILA –TEAM MEMBER

**GUIDE:**

* SATEESH KUMAR KANAGALA.

Assistant Professor, Department of ECE.