

Mi-Traffic

Intelligent Traffic Analytics Platform

Mi-Traffic provides real-time vehicle counting and key retail analytics and vehicles flow data. It allows accurate tracking and recording of the number of vehicles passing by a stretch of road segments in a certain time period. This can be used to count and classify vehicles into different categories at the same time.



Overview

Mi-Traffic is a platform that analyses traffic videos in real time and extracts traffic information from them. The main function of this platform is to count vehicles passing by a stretch of road segments in a certain time period and classify the vehicles into different categories at the same time. The traffic data provided by the system can be used to further analyse traffic behaviour and used for future planning of traffic facilities. It can provide accurate information about the vehicle density on a particular city road or highway for advanced traffic monitoring and management.

Features

Mi-Traffic comprises the following features:

- **Vehicle Counting Module**

This module counts the number of vehicles that cross a virtual line as specified by the user within a predefined region of interest (ROI). The counting result will be recorded in a counting log file each time after the analysis period is reached.

- **Vehicle Counting with Classification Module**

This module counts the vehicles according to their classes that cross a virtual line as specified by the user within a predefined ROI.

- **Vehicle Classification/Prediction Module**

This module classifies cropped images into their respective object class labels. The user may specify the path for storing the sorted images based on the predicted class label.

- **Automated Traffic Analysis in Real Time**

Traffic data can be extracted live and in a continuous manner. The data is then analysed in parallel with the feed.

- **Efficient Resource Planning**

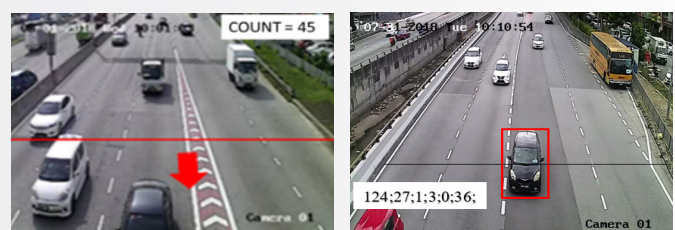
The data of the vehicle traffic generated can be used to further analyse traffic behaviour and used for future planning of traffic facilities.

- **Enhance Road Safety**

As the occupancy of the road can be extracted in real-time, the information can be used to enhance road mapping and traffic flow and as countermeasure for road incidents and urban planning.

Applications

Enterprise, Government



Mi-Traffic vehicle counting and classification

Technology Benefits

Mi-Traffic provides a scalable method to automatically detect and count different types of vehicles for traffic analysis. The benefits of Mi-Traffic include:

- **Enabling Smart Building**

RHT enables real-time energy management systems to fine-tune and reduce energy consumptions, hence saving money.

