Illegal Parking Detection

An Essential Component in Intelligent Transportation System (ITS) of a Modern Smart City

With skyrocketing number of automobiles on the road, the traffic management authority of a modern city faces huge challenge in monitoring the traffic rule violations due to the sheer number of events and lack of instantaneous measures. A highly efficient solution for detecting illegal parking automates the monitoring process by generating real time alerts against such breaches and makes the surveillance system really smart.

AllGoVision Solution

AllGoVision’s constantly innovates to provide more specific solutions to your specific problems. Now it comes with a robust algorithm that detects illegal parking event efficiently in the monitoring zone which is under surveillance by IP Cameras. It detects parking or stopping of any vehicle in a specified virtual area in the camera field of view (no parking zone or restricted zone as per the authority) beyond a specified period.

- Detects illegal parking in any camera angle – the normal surveillance cameras can also be used
- Works fine even in challenging environment with continuous and busy traffic
- Equally effective in different locations – private compounds, city roads as well as highways
- Detects vehicle stoppage in an undesired or restricted zone
- User can mask part of the area for no alarm for stoppage in the same camera view
- Detects vehicle stoppage for longer duration than permissible time limits
- User can specify the time limit which can range from few seconds to several minutes
- Detects accidents by identifying stoppage of vehicle at the middle of the road / highway
- Can be integrated with license plate recognition feature to identify vehicle by their captured and recognized license plate along with the image of the violating vehicle

Few Case Studies

Land Transport Authority (LTA) of Singapore City installed 259 IP cameras for detection of illegal parking at specific locations. Deployed on 44 cameras on Bandra Worli Sea Link Mumbai, it alerts for unauthorized parking and prevents suicide attempts.
Multiple Application Areas

AllGoVision’s real time alerts for illegal parking of vehicles can be harnessed in various ways depending on the challenges faced by various stakeholders. Following are major application areas and related use-cases:

- **Traffic / City Surveillance**: Enforce traffic rules and detect violations on City Roads, Flyovers, Bridges etc.
- **Compound Monitoring**: Prevent access blockage on Pathways / Approaches of Malls, Offices, Buildings
- **Accident Detection**: Detect accidents / break downs on Highways and initiate Emergency Care instantly
- **Restricted Zones**: Monitor trespassing vehicles coming and stopping in close proximity of critical zones
- **Passenger Drop Off Areas**: Prevent unnecessary crowding in the curbside in Airports, Railway Stations

Solution which you can simply Plug & Play!

AllGoVision Video Analytics Solution works fine with any good quality generic IP camera. Being an open platform solution, AllGoVision is easily and tightly integrated with many VMS. What you need to do is just plug it into existing video surveillance system without any extra camera investment.

**Manage how you detect Illegal Parking events**

- User defines the region of interest with polygon
- User sets the threshold value for stoppage time
- User can mask areas for no-alarm generation
- View alarms either in Alarm Center* or VMS Client

*AllGoVision’s alarm management client with extensive reporting and analysis options

About AllGoVision

AllGoVision is a unit of AllGo Embedded Systems, founded in 2005 and headquartered in Bangalore with branches in the US and Dubai. AllGoVision is a leading video analytic software and has a global spread of sales partners, with proven installations worldwide. We have dedicated ourselves into in-depth research and product innovation and house more than 150 top-notch engineers. AllGoVision video analytics software is equipped with 30 plus basic and advanced Video Analytics features. It is an Open Platform Analytics integrated with many VMS manufacturers. AllGoVision focuses on providing following benefits to its customers – robust performance, cost efficiency, ease of use and customization.