

**OBJECT COUNTING VEHICLES ON CCTV STREAMING  
MEDIA USING *OPEN SOURCE COMPUTER VISION*  
(*OPENCV*)**

**(Case Study : Car Vehicle Traffic Highway CCTV Records)**

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**ABSTRACT**

Object Tracking is one useful technique in the field of Computer Vision. The application of object tracking techniques can be done in daily activities. One of these activities is the automation of object counting or object counting on car vehicles. In this study real-time vehicle object calculation will be carried out by using background subtractions techniques on CCTV streaming media. The background subtractions method will be assisted with an OpenCV library that can distinguish objects with their background. Calculations are done by paying attention to the movement of objects. Each object that passes through the counter line will increase the number of counts with the level of accuracy in this study that is using a threshold value with a minimum limit of 200 and a maximum value of 255 and with a line up value of 2.67 and line down of 3 and an up limit value of 0.8 and a value down limit of 4. Based on the results of the processing and the results of the analysis, in a duration of 1 minute, it was calculated that the vehicle passing by was 117 cars for the vehicle that was pointing upwards and 136 cars for the downward car vehicle.

**Keywords :** *Object Counting, Car, OpenCV, Treshold*