

## Abstract

Traffic congestion is a condition where traffic is blocked or even halted because there are some disturbances. The example of the disruption that caused the congestion, among others, due to accidents, crossing a plot, and because there are queues of vehicles in the area of intersections that have been solid.

Smart Traffic is a Hardware that is used to manage or cope with traffic jam using traffic light priority system by observing the length of the queue of vehicles at the intersection area . The purpose of the Smart Traffic is to create a system that can manage traffic and overcome bottlenecks, and create a system that can detect the length of queues and can give priority for most long queues so that the queue of vehicles can be reduced.

From the results of the tests conducted, it can be seen that the prototype of Smart Traffic tool is quite able to overcome the bottleneck. It's just that this tool is expected to be developed in the future.

**Keywords:** Traffic jam, *Smart Traffic*, detecting queue length, intersection