

ABSTRACT

This prototype aims to create a vehicle queue detection system that causes traffic jams in an urban area. The system functions to read traffic lights based on the number of vehicles. in a prototype designed to solve the problem of traffic jams in urban areas. Good and optimal traffic jam control cannot be done without using an intelligent and realtime data management system. Through the prototype, we are able to improve the quality of congestion control in both strategic and operational aspects. The prototype was carried out using digital image processing methods.

Keywords: CCTV, Raspberry Pi, traffic management, traffic jam.