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Internet Traffic Dynamics in Wireless Sensor Networks

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Abstract



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Abstract:

Transportation by vehicle is becoming more and more important everywhere, particularly in large urban areas. The continual technological advancements that support vehicle mobility, such as controlled electrical, inductive rings, monitoring cameras, and so forth, are expensive and in addition demand significant maintenance costs. Moreover, the accuracy of these devices is also dependent on the weather. The standard usual approaches aim to simplify signalized intersections operation for a certain traffic arrangement and thicknesses. In any event, a major barrier to using these tactics is the difficulty of consistently displaying the effective behaviour of changing configurations and traffic volumes. By many accounts, traffic is more of a transition than an improvement problem. In order to address the aforementioned problem, we offer a method in this study that performs flexible signal timing management using a setup of a distant sensor nodes. The goal of the study is to investigate methods for creating a developing this system that can integrate and enable some of the most recent traffic signal technologies and, as a result, reduce the amount of time that cars are typically stopped at a junction. The suggested algorithms can adapt to the traffic flow at any intersection of streets. To construct a graph of typical noise levels versus cycles, transportation incidents from real life are acted out in the Green Arrow District Sim, a stage that has been faithfully replicated. The results obtained demonstrate the viability of the suggested method for the stop light at a real street cross location.

Authors

Figures

References

Keywords

Metrics

Date of Conference: 12-13 May 2023

INSPEC Accession Number: 23484922

Date Added to IEEE Xplore: 24 July 2023

DOI: 10.1109/ICACITE57410.2023.10182866

► ISBN Information:

Publisher: IEEE

Conference Location: Greater Noida, India

☰ Contents

I. Introduction

Ascend in traffic, are influencing numerous people in time, energy and persistence on streets. Indeed, even in the wake of further developing the current street foundation, In only certain situations, the normal wait time for a car at a crosswalk can seem eternal. The most recent technological developments that assist automotive movement, such as making special, induction circle, spy cameras, and other devices that may detect a car in a good location, are expensive and demand significant maintenance costs. Also on the contrary, Roadside devices depends on the weather, and the signal timing management system necessitates designs which can adapt to constantly shifting traffic volumes and patterns. Wireless sensors networks provide the solution in such recurring circumstances and fundamental uses. WSNs have shown to be the most effective at addressing traffic challenges because they're extremely versatile, robust, and work brilliantly for app locations that need little power, little expenditure, and easy maintenance.

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