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Comparative Analysis of Video Transmission in Vehicular Networks using IEEE 802.11g and IEEE 802.11p Standards

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Abstract:

There is a difficulty in the implementation of vehicular networks due to the high cost of equipment and the limitations that current technology imposes for the implementation of VANET networks. According to the literature that emphasizes that despite present a good solution for connectivity in vehicular networks, their architecture is unfeasible due to the high cost involved, mainly in the installation and implementation of adequate infrastructure. The main objective of this work is to present a comparative analysis between the performance of the IEEE 802.11g and IEEE 802.11p standards, using the Ad Hoc on Demand Distance Vector Routing (AODV) routing protocol and through the Network Simulator (NS-2), find out which of the standards demonstrates a better performance in video transmission. In this context, network scenarios are simulated, in different situations applying movement of nodes, the performance results of the standards in the proposed network scenarios are compared and evaluated, obtained through data collection through simulations. The quality of the video transmitted by both standards are compared and evaluated, using QoE (Quality of Experience) metrics.

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I. INTRODUCTION

In recent years the amount of vehicle sales has increased exponentially in the world, consequently the number of accidents involving them as well. Aiming to solve this problem, researchers and large automakers have been developing tireless work in order to improve the safety of their vehicles and the traffic conditions in cities [1]-[2].

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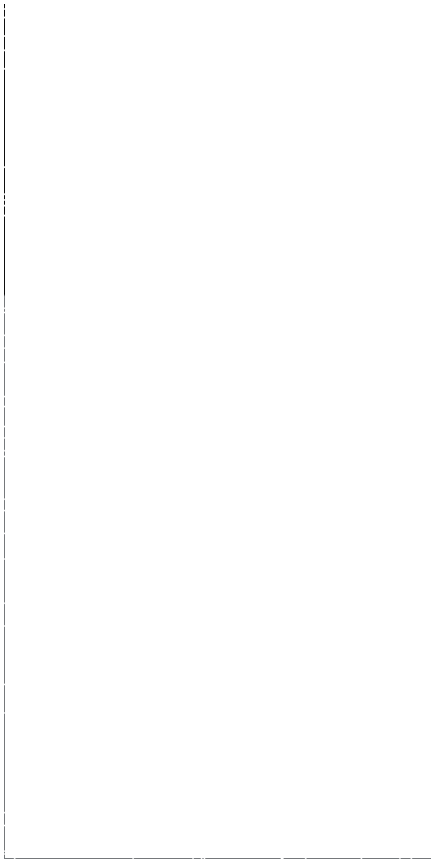
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