TRAFFIC MANAGEMENT SYSTEM AND PROCEDURE

Description:

At present, multiple systems for intelligent traffic management are known, but until now they have certain drawbacks, such as the installation of devices in the vehicles themselves, or the implementation of complex sensors on the side of the roads. Thus, the present invention consists of an autonomous, efficient and robust system that allows easy integration into existing road protection and signaling elements, constituting a simpler, lower cost and more efficient alternative than other solutions based on cameras, operators humans or variable message boards. For this, a plurality of nodes distributed along the road are used, each of them obtaining a reliable estimate of the traffic and providing information to the driver in advance to avoid risky situations.

Keywords:

Traffic, Road Safety, Traffic Density, Estimate, Road Signs

Sectors:

Security, Protection and Defense, Transport, Tourism, Culture and Education

Areas:

Technological Improvements, Recognition and detection system

Advantages:

• This system is very robust against technical failures, since a failure in one node does not cause the complete system to be rendered useless. • On the other hand, the system is tolerant of unreliable local estimates, since the traffic density at each node is spatially averaged. • It allows to issue warning signals to drivers about the state of the road on sections they have not yet reached. It is, in short, a solution that allows easy integration into existing road protection and signaling elements, constituting a simpler, lower cost and more efficient alternative.

Uses and Applications:

This technology is useful for estimating traffic density, providing information to the driver in advance, to avoid risky situations. Thus, its field of application is that of road safety.

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