Abstract

TRAFFIC MONITORING SYSTEM

The invention relates to traffic flow monitoring facilities and can be applied using telecommunication systems for automatic monitoring traffic laws (TL) compliance, for making decisions regarding TL violations and for their transmitting to the violators without direct human intervention. Additionally the system provides for an automatic notification on the abnormal situations including detection of abusive use of vehicles, and control over decisions regarding TL violations. The system includes plurality of stationary traffic monitoring points (STMP) provided with reading devices to receive data from identification means located on a vehicle. All STMPs are connected to a database through a communication network and are made in the form of autonomous small-sized computer devices with a cellular communication module; they include automatic devices for photo- and/or video- and/or radio reading and for processing information about vehicles and traffic situation, and automatic software tools for determining the movement parameters of the vehicles, and for comparing them with the permissible parameters for the particular road section. The system is provided with software tools for automatic determining the TL violations and abnormal events and making decisions with respect thereto, with devices for automatic transmitting information via a mobile network from STMP to base station of a mobile communication operator and from there to the database by means of the internet. The invention permits to reduce human intervention into traffic safety provision.

Fig. 1