

METHOD AND SYSTEM FOR DETECTING FREQUENT LANE CHANGES OF MOVING VEHICLES

ABSTRACT

The present invention belongs to the technical field of electronics, and provides a method and system for detecting frequent lane changes of moving vehicles. The method for detecting frequent lane changes of moving vehicles comprises following steps: extracting Z axis angular velocities, the Z axis angular velocities are those Z axis angular velocities in triaxial angular velocities obtained by a sensor of a vehicle in a moving process of the vehicle; if a Z axis angular velocity of which an adjacent numerical product is negative occurs in the Z axis angular velocities, storing the Z axis angular velocities in a specific time period; if the number of Z axis angular velocities with a numeral value of 0 in the specific time period reaches a first threshold value, judging that the vehicle has made frequent lane changes in the specific time period. By extracting the Z axis angular velocity values, and storing those Z axis angular velocities, from the Z axis angular velocity of which numerical product is negative, analyzing the Z axis angular velocities stored in the specific time period, and judging the number of the Z axis angular velocities with the numeral number of 0, it is determined whether the vehicle has made frequent lane changes or not in its moving process, so that an active monitoring for vehicle travelling statuses is implemented, thereby normalizing driving behaviors, and reducing traffic accidents.

FIG. 1