

SATELLITE NAVIGATION SYSTEMS IN TRANSPORT TODAY AND IN THE FUTURE

Summary

The continuous information of user's position is one of the most important elements, which determines the safety of the user in the road, rail, sea or air transport. The information about this position is obtained principally from specialized electronic position-fixing systems, in particular satellite navigation systems (SNS). At present (June 2009) unique fully operational and global system is American GPS (Global Positioning System - Navstar). GLONASS (Russian system) cannot be a continuous position fixing system. The new systems - Galileo and Compass, sponsored by the European Union and China, respectively are under construction as the contribution to the next generation of satellite navigation. Galileo will make transport safer and more efficient. It will offer new services for people or goods on the move, for instance the monitoring of passenger transport in coaches or of dangerous goods, real-time information on transport conditions and driver assistance.

The problems of the actual use of GPS system and the possibilities of the use of Galileo system in different modes of the transport will be described in the paper.

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