ROAD WEATHER INFORMATION SYSTEM

STUDY ON THE DEVELOPMENT OF THE PAVEMENT SURFACE TEMPERATURE FORECAST

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Abstract: An overview of the Road Weather Information System (RWIS) for the needs of Croatian Intelligent Transport System is presented in the paper. The basic features of the system architecture, components configuration, application software, as well as some machine-human interface solutions are described. Road weather monitoring is the basis for successful road traffic with respects to the weather condition that significantly affect to the safety, functionality and efficiency of road traffic. The paper also focuses on new ways of utilizing the massive amount of weather sensor data collected from RWIS. Traditional ways of using Road Weather Information Systems have been to forecast road icing before its formation for proactive winter-road maintenance. The algorithm of applying artificial neural networks for short-term forecast of surface temperature road is presented in the paper.

Keywords: ROAD WEATHER; INFORMATION SYSTEM; pavement surface temperature; forecast

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