

THE INFLUENCE OF MOBILE PHONE ON THE DRIVER

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Ergonomic in the system "driver-car-road-environment" the driver is the operator of the system, labor processes, which are operations associated with receiving and processing information that is supplied to the driver. During the movement the driver uses two main channels of information perception: visual and auditory.

The use of complex registration of psycho-physiological indicators, such as ECG and EEG allows to determine the influence of information on the driver.

Experimental study of psychophysiological state of the driver during the movement in the city of Kharkov, was carried out using electrophysiological equipment (EEG "Neurocom", ECG "Cardiosens"). In parallel, recorded video of the two positions of the test to determine the situation in which the driver is distracted from fulfilling its core function while driving the car.

Using the mathematical model [1] the results were interesting. For example, results of a study of the effect of mobile phone as an additional source of information coming to the driver, showed that regardless of the form of receipt of information ("hands-free", "speakerphone"), the conversation distracts the driver, at what time of distraction depends on its General functional state and can vary from 0.2 s to 3s.

These studies are required to ensure safe driving and prevent accidents, because the driver needs to know what information is useful to him and which may divert his attention.

References

1. V. Dolya, I. Afanasieva, U. Davidich, I. Englezi, N. Gyulyev, O. Prasolenko. Influence of Information Flows on the Results of a Driver's Activity in the System «Driver – Car – Road – Environment.» AHFE 2014 Post-Conference Book «Advances in Human Aspects of Road and Rail Transportation 2014". published by CRC Press/Taylor & Francis. – 2014, г. Krakow, Poland.– pp.176-183

АУДИТ БЕЗОПАСНОСТИ ДОРОЖНОГО ДВИЖЕНИЯ В РЕСПУБЛИКЕ БЕЛАРУСЬ

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Аудит безопасности – метод контроля, применяемый совместно с мониторингом дорожного движения, проводимого независимой командой экспертов на разных стадиях технологической готовности продукта дорожной отрасли – дороги (или его участка), с целью как можно раннего выявления и