

Attention of Driver during Simulated Drive



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Attention of drivers is a key factor of road safety. Since inattentive drivers cause a considerable number of accidents, it is worth to examine the causes and course of driver's attention even in laboratory conditions during a simulated drive. This paper deals with the experiment in which the methods of electroencephalography and event related potentials are used under various conditions to investigate driver's attention. Eleven participants, university students, were stimulated with audio signals during monotonous drive in four experimental sessions. The hypothesis is that the peak latency of the P3 component increases in time as the driver is more tired from monotonous drive, daytime and sleep deprivation. The background of the used methods, experimental design, participants, data processing, results and final discussion are presented in this paper.

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