

These mentioned bio-feedback methods are based on presenting the special adaptable scenario to the tested person, which he/she can modify according to the trainer hints for to reach either the reward or to be punished.

Such training can lead after many to subsequently improving repetitions the trained person resistivity to decrease of his/her attention reductions and also to decrease of tendency to aggressive driving.

If the trained subject succeeds, is rewarded, if no is punished.

The not neglect-able role of trainer is to evaluate the driving quality and according it to adjust the difficulty of training and the intensity of reward or punishment.

However, in more advanced bio-feedback methodologies also the whole set of other kinds of impacts on the trained person behavior can be used.

In novel versions of the fundamental bio-feedback the investigation of other driver neurophysiological factors can be added, namely the breath, hearth beats analysis, the EEG and eventually also the NIRS signals analysis, temperature measurement etc.

The more complex bio-feedback investigations are of course more laborious, however allows much deeper investigations and higher effectivity of training.

The testing of possibilities of intelligent interactions of human brain with vehicle was in last years studied quite intensively, especially with respect to expected advent of autonomous vehicles (see [8] e.g.). However, some authors e.g. [7] had critically mentioned, the uncertain aspects and irrational tendencies in human behavior resulting unexpected from interactions of many subjects with modern advanced communication tools will probably require the development of quite new vehicle control methods.

For reaching such goal considerably long intensive investigations will be necessary.

8 Conclusion

What has to be underlined is, that in all these investigations of driver tendencies to aggressive behavior behind the wheel, even in their training to limitation of these trends play extraordinary important role the factors of uncertainties. For this a novel information background is necessary.

The low or no respecting of this necessity can highly disregard all the credibility of all reached results.

The aggressive behavior aspects of drivers appear often from quite in time uncertain reasons, which significantly complicates both their detection and investigation.

These facts lead to the necessity take high care to these uncertainty factors especially because the level of knowledge of them is still not high enough.

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