

# **Adaptive and full automation: problems and pitfalls**

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**Abstract:** The past three decades adaptive and full automation have received considerable attention and major steps forward have been made. There are however, still many hurdles to take. Some of these are on lower levels, e.g. which measures to use for automation or to change the level of automation, others are on a higher level, e.g. how to foresee errors of automation and how to recover from these. Next to this there are ethical issues, and humans adapt to new situations, but not always in a predictable way. Mixed traffic, both the situation where not all vehicles are autonomous and situations where automated vehicles mix with vulnerable road users, need to be considered carefully before fully automated vehicles can be promoted. In my talk I will try to address these topics.