Societal perception of Meaningful Human Control for automated driving

Problem description
With the continued emergence of automated vehicles (AV) on roads, many questions have been posed in regard to their safe use and integration in existing traffic. The concept of Meaningful Human Control (MHC) has been coined as a concept to design and evaluate how well automated systems remain controllable by humans, even if humans are not operationally in control of the system, the AV in this case. However, in many cases AV design does not currently meet conditions that are set by MHC. As the role of society and human values plays an important role in determining what is humanly acceptable for AV’s, we are interested in researching societal opinion and stance on this issue.

Objectives & Assignment
The main objective of this project is to derive elements of human values and acceptability of the way AV’s drive and should be programmed to drive, also considering the concept of MHC. To do this, it will be necessary to gain knowledge of the how AV’s are designed, of the MHC concept and societal values from literature. This will be followed by a large scale experiment to determine how various parts of society view automated driving and what their thoughts are on MHC. The student is free to propose and design this experiment themselves.

This project is especially suited to TIL, TPM and Transport & Planning students, by may also be suitable for others.

Information
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