Catching Pedestrian's Attention

Open Bachelor/Master Thesis

Background

Highly automated vehicles are about to be introduced at least for some use cases. Such vehicles will then become players in a socio-technical system involving pedestrians and other human drivers. However, most research has gone into technical solutions without special regard to the other players. At intersections, pedestrians will have to be made aware of the intent of the vehicles. But how to catch their attention in case of distraction?

Research Goal

The aim of this thesis is to investigate how to catch the attention of a pedestrian that is currently being distracted (headphones, smartphone, taking photos, …). A related work research should be conducted and interdisciplinary, learning psychological, didactic and information science approaches should be considered.

A prototype should be designed and implemented that investigates several of these aspects. Finally, the defined hypothesis should be evaluated by conducting a study.

Based on bachelor/master level the scope is adapted.

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