



TTS LAB WEBINAR #7

JOHAN OLSTAM

Overview on traffic simulation modeling at VTI, including simulation of 2+1 roads and bike traffic simulation

VTI have been developing and applying microscopic traffic simulation since the 70's. To start with the development and applications focused on motorized traffic on two-lane rural highways, e.g. rural roads with one lane in each direction and without separation to oncoming traffic. In the last decades the focus has been widened both in terms of which type of road facilities that is considered (motorways, signalized intersections but also the new 2+1 rural road design) and in terms of travel modes (pedestrians, bikes and buses and bus terminals). For motorized vehicles the scope has more and more shifted from traffic simulation of different road designs towards changes in the vehicle and driver population that driver support systems and partly and fully automated vehicles imply. The increased interest for active modes and public transport has highlighted needs for better traffic simulation tools for active modes and public transport (e.g. interactions between pedestrians and buses and bus terminals). This presentation will first give an overview on VTI's research in the microscopic traffic simulation field and give some more details on our research connected to traffic simulation of 2+1 roads and bike traffic.

Speaker bio

Johan Olstam is the research leader in simulation and analysis of road traffic systems at the Swedish National Road and Transport Research Institute (VTI). He joined VTI in 2002. His research interests include quantitative methods for analysis of traffic and transport systems, traffic modelling and simulation and analysis of Intelligent Transportation Systems. He obtained his PhD in Infrainformatics (2009) at Linköping University with a dissertation on simulation of surrounding vehicles in driving simulators.

DATE
18 MARCH 2022

TIME
11:00 – 12:00 CET

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