

Drive for All

Seminar at MINES ParisTech

Wednesday 26th February 14:00 – 15:00

Large-scale simulations for automated mobility in Zurich and Paris

By Sebastian Hörl, ETHZ

The Chair *Drive for All* is pleased to invite you to a seminar on “Large-scale simulations for automated mobility in Zurich and Paris”. We have the honor to receive Sebastian Hörl from the Institute for Transport Planning and Systems within the Swiss Federal Institute of Technology in Zurich (ETHZ).

This seminar is public and free of charge, [registration is mandatory](#).

Abstract

In recent years Autonomous Mobility on Demand (AMoD) has become an active research field in transport planning. So far, several simulation studies have been presented that estimate which automated taxi fleet size would be able to serve the mobility demand in various cities around the world. One major part in these simulations has been missing so far: the customer behaviour. The talk will cover how this problem has been tackled at the Institute for Transport Planning and Systems at ETH Zurich over the past two years. After a short introduction of the MATSim simulation platform an overview of current results regarding costs, surveys and simulation around AMoD will be given. For the case of Paris a novel simulation scenario will be introduced, including first preliminary results of fleet sizing under the presence of customer behaviour.

Venue

MINES ParisTech – Board room (salle Vendôme)
60, Boulevard Saint-Michel 75006 Paris
Luxembourg station on RER line B

Drive for All is the International Chair MINES ParisTech, Peugeot-Citroën, Safran, Valeo on automated driving of ground vehicles.

The chair unites researchers from MINES ParisTech's Centre for Robotics with teams from international partner institutions — Shanghai Jiao Tong University in China, the University of California, Berkeley in the United States and Ecole Polytechnique Fédérale de Lausanne in Switzerland.

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Short bio:

With a background of systems theory and systems engineering, **Sebastian Hörl** received his MSc degree in Complex Adaptive Systems from Chalmers University, Sweden, in 2016. After a stay at the Future Cities Laboratory in Singapore, he started his PhD degree at ETH Zürich on the topic of large-scale agent-based transport simulation. His research focuses on the synthesis of artificial populations and the impact of highly automated vehicle fleets on travel behaviour and system performance.