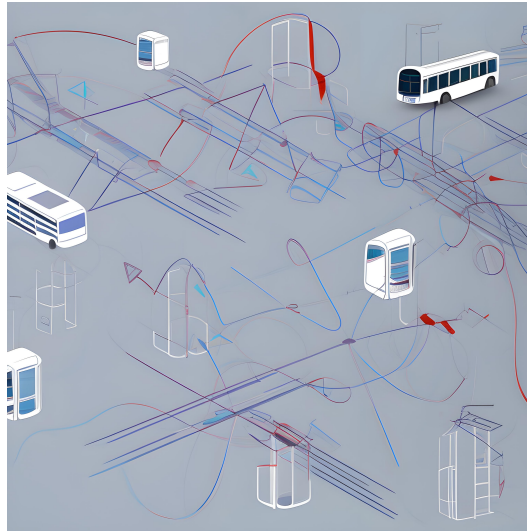


Comparison of different simulation solutions for electrified urban bus transport



Project eBus2030+ In this project, we are working together with the Reiner Lemoine Institute and BVG on developing the best possible paths for the electrification of Berlin's bus transport by the year 2030.

Contents of the Thesis

Simulation software for the design of electric urban bus networks has been developed at both the TU Berlin and the Reiner Lemoine Institute in recent years. In addition, BVG has tendered a study for the design of the bus network to an engineering firm.

In this paper, the results of the different simulation models will be compared. According to the assumptions in the study of the engineering firm, simulations are to be carried out in the TUB software EFLIPS and the EBUSTOOL of the Reiner Lemoine Institute, respectively, and the three resulting results are to be examined for similarities and differences.

The goal is to determine to what extent the simulation results differ significantly and which aspects are only insufficiently considered in simulation models.

Requirements

Major Engineering, Transportation, Computational Engineering or similar

Skills Confident use of the programming language PYTHON

Timeframe Winter semester 2023/2024

What we offer

- Collaboration in an exciting research project on the decarbonization of Berlin's transport.
- Publication of the results with student as author is sought

Contact

Ludger Heide

ludger.heide@tu-berlin.de

H4122