



Multi-Modal Routing

Urban transportation systems are evolving quickly; on-demand transportation like Uber, bike and car sharing enable more flexible travelling than traditional closed-system public or private transport.

In collaboration with *Ubique Innovation AG* we would like to provide better access to existing and emerging transportation systems with a general focus on Switzerland. Ubique is a leading provider for public transport solutions and can provide access to real-time vehicle status information, allowing us to create the best possible user experience.



In this project, we aim to revolutionize the Swiss public transport landscape. Your task is to study user preferences, define and solve the corresponding optimization problem. This is a unique opportunity because your work may be incorporated into a real world system with thousands of users.

Requirements: An interest in algorithmic problems is required. Programming experience is an advantage. The student(s) should be able to work independently and come up with original ideas, which we will discuss and refine together.

Interested? Please contact us for more details!

Contacts

- Manuel Eichelberger: manuelei@ethz.ch, ETZ G97
- Roland Schmid: roschmi@ethz.ch, ETZ G94
- Simon Rösch: roesch@ubique.ch, Ubique Innovation AG