Themen für studentische Arbeiten:

Leiter der Arbeit: Axhausen

Assistant/in: Sarlas

Titel der Arbeit

  Hazard based models for trip duration and distance

Beschrieb der Arbeit:

Hazard based models have been exploited in the recent years for enhancing the mobility understanding. The objective of this thesis is to estimate such models for the Switzerland and draw conclusions on the factors that are affecting the trip length per purpose. A particular focus will be given on the work trips, in order to comprehend and quantify the factors that drive the decision of where people choose to live (or work) with respect to the commute time they personally encounter on their daily life, in conjunction with the mobility needs of the rest households' members (e.g. commuting time of spouse).

Disaggregated data from the Micro-census will be used for that purpose where two levels of analysis will be chosen regarding the commuting trips; regional and urban level. In addition, the connection of the individual data with house rent prices data will further help to identify the trade-offs between commuting time and the specific amenities of housing locations and hence can provide quantified insights of apparent value for residential choice models.

Mindestumfang: 8/24 KP

Empfohlene Lehrveranstaltungen: Familiarity with the statistical programming language R for data processing, econometrics course(s),

Besonderheiten: