**Lecture series on the subject "AI, Data Science and Society"**


**4. Martin Raubal: Spatial Data Science for Sustainable Mobility**
ETH Zürich

## Abstract

The constant rise of urban mobility and transport has led to a dramatic increase in greenhouse gas emissions. In order to ensure livable environments for future generations and counteract climate change, it will be necessary to reduce our $CO_2$ footprint. Spatial data science contributes to this effort in major ways, also fueled by recent progress regarding the availability of spatial big data, computational methods and geospatial technologies. In this talk I will demonstrate how spatial data science provides opportunities for scientists to perform large-scale spatio-temporal analyses of mobility patterns as well as the employment of geospatial technologies for changing people's mobility behavior. Examples will cover movement data analysis within the context of multi-modal and energy-efficient mobility, and mobile decision-making support.