

CIM Research Workshop

Visualising our perception of urban streetscapes

28 and 30 April (10:00 a.m. - 12:00 a.m.)

What is it about?

Investigating how the attributes of streets influence our perception is important for the design of human-centred urban spaces. We will explore data processing and visualisation methods as well as different datasets (e.g., Google Street View, OpenStreetMap) to try and understand this interaction.

Specifically, we examine:

- How the visual features of streets relate to our perceptions of safety, beauty and liveability?
- Can we estimate these perceptions based on social vibrancy and human activity spatial data?
- Do these perceptions differ according to personal attributes such as age, gender or nationality?

Objectives:

- Develop an approach to tackle these questions
- Explore the collection and machine learning interpretation of street view imagery with Python (**no prior knowledge required**)
- Develop an account of the relation of perceptions to street and personal attributes using data visualisations and statistical analysis
- Reflect on our work and on future research directions

Program:

Day 1:

Introduction (20 min.)

Group discussion (40 min.)

Data processing and visualisation experiment (60 min.)

Day 2:

Data processing and visualisation experiment (75 min.)

Seminar discussion and outlook (45 min.)