

MID S4: Climate and Comfort / Winter Semester 2023-2024

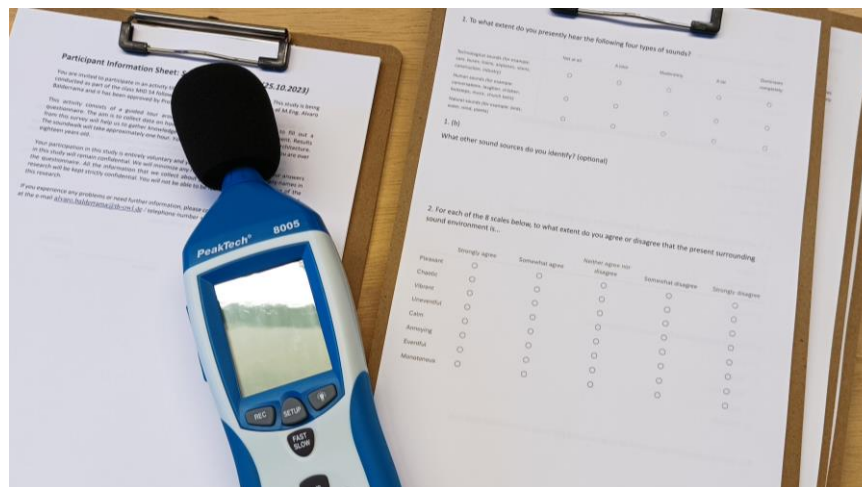
# Workshop: Façade Acoustics and Soundscape Assessment

WEDNESDAY, OCTOBER 25th, 2023

SOUNDWALK DETMOLD (25.10.2023)



Soundwalk Path



Questionnaires and Sound Level Meter (dBA)

Summary: On October 25<sup>th</sup>, 2023, seven students in the class of Climate and Comfort of the MID FD program took part on a soundwalk in Detmold, led by M.Eng. Alvaro Balderrama within the context of the PhD research project “Façades and Urban Soundscape”. A soundwalk is a method used to collect data regarding people’s perception of sound and experience of the environment. The questionnaire and the overall procedure followed the ISO12913 series for soundscape data collection and analysis. The results of the soundwalk in Detmold are the starting point of the main task of the workshop, which is to analyze the relationship between building façades and the soundscape of each surveyed area.



Area 1



Area 2 (same as Area 1)



Area 3



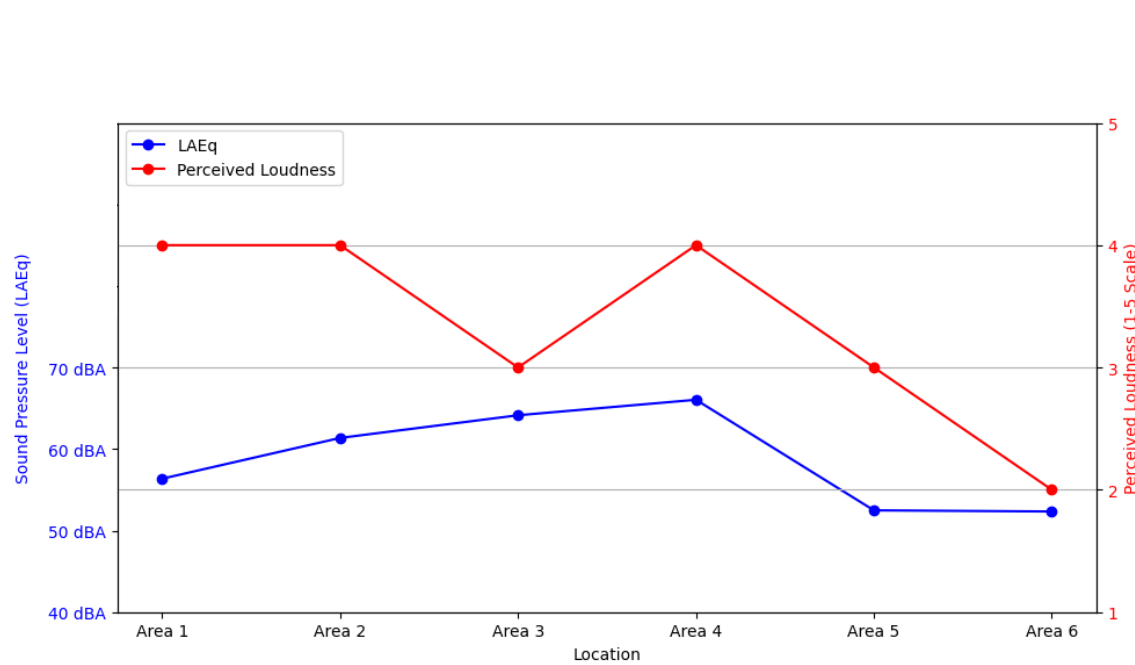
Area 4



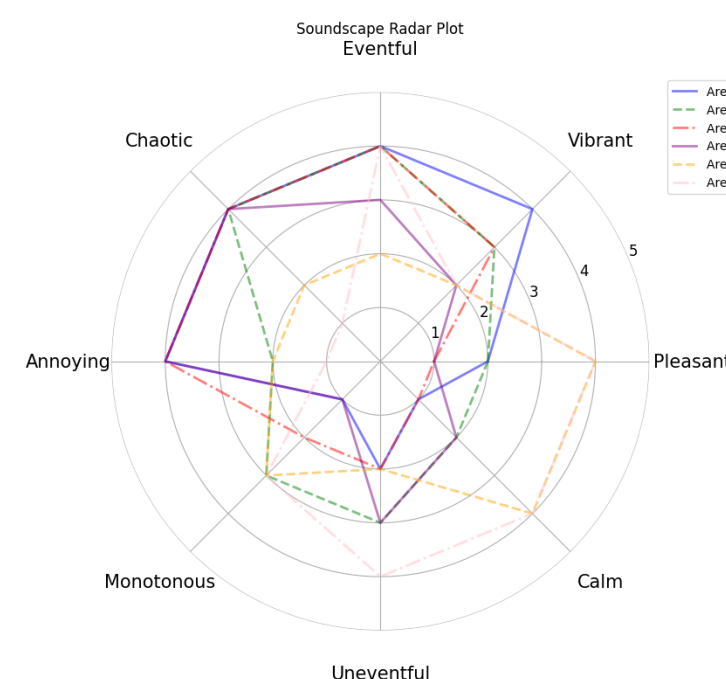
Area 5



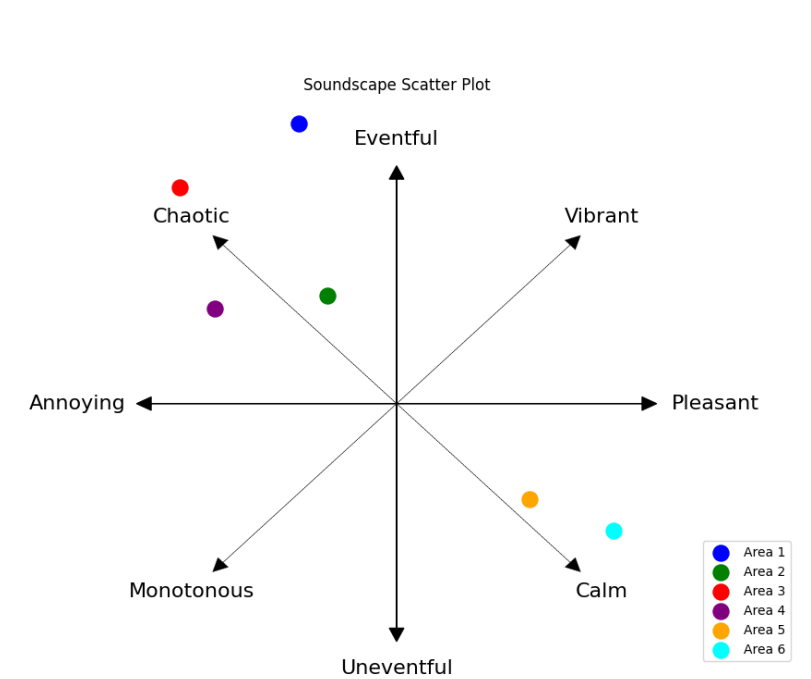
Area 6



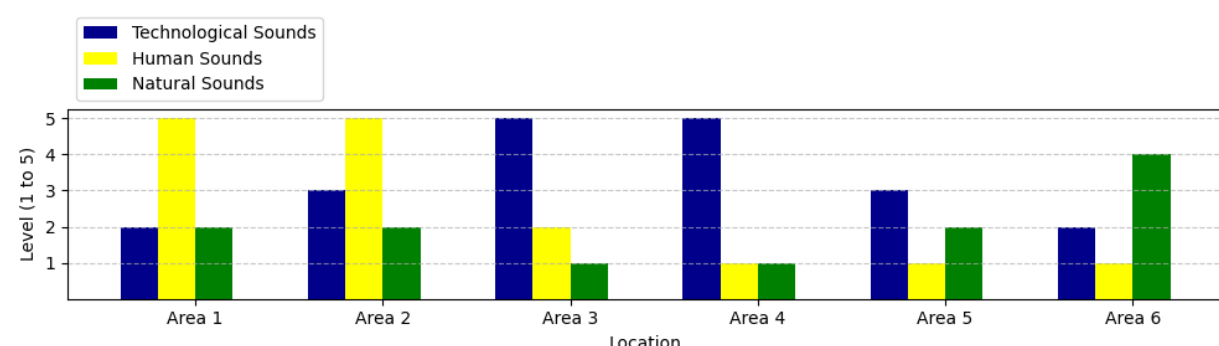
Sound Pressure Level and Perceived Loudness



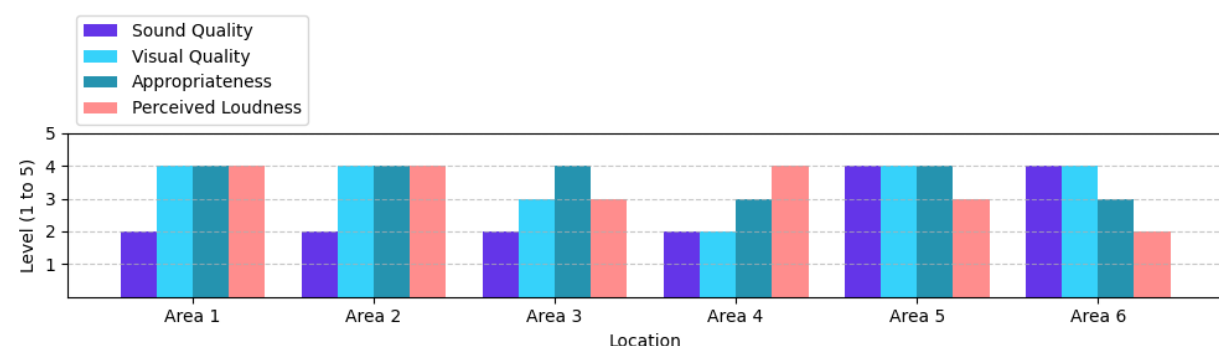
Soundscape Radar Plot of Perceptual Attributes



Soundscape Scatter Plot



Identification of Sound Sources



Sound Quality, Visual Quality, Appropriateness, Perceived Loudness

**Sociodemographic Data:**  
Average Age: 27  
Gender Distribution:  
- Female: 71.43%  
- Male: 28.57%  
- Non-Conforming: 0.00%  
- Rather Not Say: 0.00%  
Country/Nationality:  
- Iran: 28.57%  
- India: 28.57%  
- Turkey: 14.29%  
- Sri Lanka: 14.29%  
- Germany: 14.29%  
Occupation:  
- Students: 100.00%  
- Employed: 14.29%  
Education:  
- University - Bachelor's degree or similar: 100.00%

Sociodemographic Data

