



# Increasing the Acceptance and Positive Perception of Urban Greening Agents

## Background

Urban greening agents (oftentimes robots) are designed to support the maintenance of urban green spaces through tasks like planting, watering, and monitoring plant health. These robots enhance urban sustainability by improving air quality and reducing heat islands. Investigating how to foster acceptance and positive perceptions is essential, as public support is crucial for their successful integration. Promoting community involvement, education, and transparency can address concerns and facilitate the adoption of these technologies. By doing so, cities can more effectively leverage these robots to create healthier, more resilient urban ecosystems.

## Approach

Based on an initial analysis of existing Human-Robot interaction (HRI) approaches and an evaluation of user opinions on urban greening agents, user requirements are established and used in a subsequent step to develop communication concepts that can foster acceptance and positive perceptions of urban greening robots. The concepts are evaluated in a user study.

Based on Bachelor or Master level the scope of the thesis is adapted.

## Contact



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## Focus in this project

Hardware/Software Prototype  
User-centred Design  
User Evaluation