GRADUATION PROJECT

Metric-Driven Design

for Wheelchair Users' Well-being

INTERNET OF THINGS & DATA-CENTRIC DESIGN

ABOUT
Relying on a Metric-driven approach to design relevant products and services for wheelchair users' wellbeing.

CONTACT
Derek Lomas
J.D.Lomas@tudelft.nl

Jacky Bourgeois
J.Bourgeois@tudelft.nl

ASSESSMENT

Recent advances in networked technologies (the Internet of Things) and data science methods have opened up unprecedented opportunities for measure the quality, the impact and the use of products. This new material can empower designers to design more relevant products through an iterative prototyping process.

However, there is a mismatch between machine learning and product design methods. First, data science and machine learning require large amount of data, often missing during the design process. Second, iterative design methods mostly rely on qualitative data to assess and improve designs.

How can metrics be used as tool to effectivelly iterate data-centric product design?

PROJECT AIM
The aim of this graduation project is to design and prototype products and services to support wheelchair users well-being. You will rely on a data-centric design process to evaluate and improve your solution. You will use metrics has a driver to iterate on your design.

This project touches upon a range of subjects:

- Machine learning
- Sensors and embbeded interaction
- Iterative prototyping

INTERESTED?
This project is best suited IPD students with strong interest in machine learning and data.