GRADUATION PROJECT

Sensor-based Human Digital Twin

INTERNET OF THINGS & DATA-CENTRIC DESIGN

ABOUT
Real time modelling of human behaviours based on wheelchair sensors.

CONTACT
Jacky Bourgeois
J.Bourgeois@tudelft.nl

FEASIBILITY

Recent advances in networked technologies (the Internet of Things) and data science methods have opened up unprecedented opportunities for modelling and analysing human behaviours at scale.

However, technics to model the human behaviour of a pardicular individual in real-time remains limited. Such model would provide a more comprehensible perspective on users, combining data collected from multiple sensors into a single view.

In this project you will develop a data pipeline enabling to model and visualise the behaviour of wheelchair users in real time.

Can we build a real-time model of human behaviour driven by non-invasive sensor data?

PROJECT AIM
The aim of this graduation project is to model the behaviour of wheelchair users by combining data from the wheelchair such as motion, force and location sensors.

This project touches upon a range of subjects:

- Sensing and machine learning
- Human behaviour modelling
- Data visualisation

INTERESTED?
This project is best suited for students with computer science or embedded system background with strong interest in data science and machine learning.