

## Software Lab:

Modeling: ★☆☆☆☆ Mathematics: ★★★☆☆ Programming: ★★★★★

# **Construction Site Pedestrian Simulation with Moving Obstacles**

## Setting

- A given pedestrian simulation software does not take moving obstacles, such as construction machines, into account.
- The software needs to be extended by a representation of such moving obstacles.
- Moving obstacles follow predefined paths, such as a dump truck entering the site and an excavator filling it.
- Workers avoid dangerous areas near the machines.



#### Task

Create a web application that

- lets users set up a 2D linear structural analysis online
- will be executed on a server running the chair's new code AdhoC++
- enables users to visualize basic results, such as displacements and stresses
- Programming language: Java

### **Supervisors**

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