Construction Site Pedestrian Simulation with Moving Obstacles

Project Characteristics

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

- 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.

- Your Task:
    - Extend the given software to include moving obstacles.
    - Implement interaction of moving obstacles and pedestrians.
    - Allow paths to be defined for moving obstacles.
    - Visualize the results.
- Programming language: **Java**