Evaluating Evacuation Plans in Urban Networks with NetLogo

Bachelor/Master

Summary
Develop a simulation model in NetLogo for evacuation planning in urban environments and measure the evacuation time of various given evacuation plans.

Project Phase
Design and implement a simulation model for evacuation planning in a city with NetLogo. The selection of the city, the locations to be evacuated, the destinations and the number of evacuees, all should model a real-world scenario.

Thesis Phase
Evaluate the evacuation time of different evacuation route plans computed by existing state-of-the-art algorithms.

Requirements
- Experience in Java programming
- Course on Algorithms and Data Structures (or equivalent)

Preferable Courses (or equivalent)
- Graph Data Management and Analysis
- Efficient Route Planning Techniques

Contact
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