

Modelling and Simulating Social Systems with MATLAB

Research Plan

Evacuation in case of a public shooting

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Our project:

- Modelling and simulating crowd dynamics in a public shooting
- Use an agent-based social force model
- Parameters: threat level, position and accuracy of attacker

We want to answer:

- How do the parameters affect the crowd dynamics?
- How does the layout of the room affect the evacuation?
- How/where are bottlenecks created because of the attacker?