

## Gruppmöte 28 dec Simulation of Complex Systems FFR120

**Research question:** *"Can assigning individuals to specific exits improve the evacuation efficiency of the Student Union Building compared to the closest exit strategy?"*

**Research objective:** *"This project aims to maximize evacuation efficiency in complex and crowded environments by analyzing factors like crowd behavior, exit visibility, and building layout."*

### Kommentarer från handledaren)

**1. Title and author list should be included on the same page as other sections)**

Status: Löst

Ansvar: Matilda

**2. Make sure that the final report is max 8 pages and add the contributions section)**

Status: Gemensamt jobb men separata ansvar

Ansvar: Matilda

**3. Add deeper conclusions and insight to abstract. For example how our result (better with assigned doors) can impact practical implications)**

Status: Lägg till det viktiga från conclusion/discussion

Ansvar: Matilda

**4. Figure 2-4 can be combined into a single figure with multiple panels to better illustrate behavioural patterns. Figure 5-6 could be made better by including all results, not just averages. "Evacuation time vs. agents exiting per sec" could be analyzed in a separate figure.**

Status: Gör om 2-4 till en bild, 5-6 är redan gjorda och ska läggas in.

Ansvar: Fig.2-4 Viktor, Fig. 5-6 Matilda. Matilda lägger till om "dizziness" på 1/3 av agenter och testar att plotta evacuation time vs exit rate.

**5. Robust structure of report but some sections are not "adequately formed". (Verkar som att han är nöjd )**

Status: Behöver inte ändras

Ansvar: -

**6. The research question is clear but needs to be backed up by literature. Find references to why exits are assigned as they are, why chose our "exit rate" etc.**

Status: Leta upp rapporten som matchar vår text

Ansvar: Viktor

**7. Strengthen our introduction by integrating relevant references to situate the question within existing research and how we build on existing work.**

Status: Hitta rapport som passar in i introduktionen

Ansvar: Johan

- 8. Reconstruct the presentation of research question to align with objective of project. (Objective: maximize evacuation efficiency. Research question: Can assigning individuals to specific exits improve evacuation efficiency?) )**

Status: Ändra research question i introduction och research objective i aim and purpose

Ansvar: Ali EH

- 9. Background: Focus on describing behaviours we simulate and mention others for context. Explain how these behaviours are treated in existing literature and highlight the novelty of our study in contrast to other research)**

Status: Gå igenom vilka parametrarna vi anger i rapporten (ex. non.adaptive och adaptive behaviours) och ändra texten så att det är tydligt vilka vi faktiskt använder/undersöker i vår simulation och vilka som är det för kontext och förklaring av problemet. Beskrivning på vad Yu Wei vill att vi ändrar finns i hans mail under "Background and Originality".

Ansvar: Ali S

- 10. Results: Provide more detailed observations on figure 6, regarding how exit rates influence outcomes.**

Status: Skriv ut stycket mer utförligt och se till att graferna förklaras

Ansvar: Ali EH

- 11. Discussion: Expand on the interpretations of figure 6. Connect findings back to research question. Integrate insights from background/introduction to draw clear conclusions that address the research objective.**

Status: Bygg ut och sammanfatta projection snyggt

Ansvar: Matilda

### **Tidsplan)**

Gör ändringar klara till senast 4e januari.