MATLAB HS13 – Research Plan (Template)

(text between brackets to be removed)

* Group Name: The Pedestrians (was hältst du davon?:)
* Group participants names: (Andreas Biri, Antoine Brison)
* Project Title: (can be changed)

General Introduction

We think that the personality and characteristics of an agent play a major role in the way he chooses his path to a certain destination especially when there are several different paths available, which lead to that destination. Same goes for the decisions an agent might take as a response to a certain disturbance occurring on his trail (ex: bad weather or bus delay). Yet, in most models simulating human trial formation or pedestrian behavior in urban systems, all agents are considered as qual. That is where we see the importance of a model which would focus mainly on the diversity among the agents. (States your motivation clearly: why is it important / interesting to solve this problem?) (Add real-world examples, if any) (Put the problem into a historical context, from what does it originate? Are there already some proposed solutions?)

The Model

(Define dependent and independent variables you want to study. Say how you want to measure them.) (Why is your model a good abtraction of the problem you want to study?) (Are you capturing all the relevant aspects of the problem?)

Fundamental Questions

(At the end of the project you want to find the answer to these questions) (Formulate a few, clear questions. Articulate them in sub-questions, from the more general to the more specific. )

Expected Results

(What are the answers to the above questions that you expect to find before starting your research?)

References

(Add the bibliographic references you intend to use) (Explain possible extension to the above models) (Code / Projects Reports of the previous year)

Research Methods

(Cellular Automata, Agent-Based Model, Continuous Modeling...) (If you are not sure here: 1. Consult your colleagues, 2. ask the teachers, 3. remember that you can change it afterwards)

Other

(mention datasets you are going to use)