Modelling and Simulation
Practical Assignment 2: Percolation

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216.32687pt442.65375pt

1. Introduction

Iets over de toepassingen van dit model, bosbranden enzo

Wat gaan we doen in dit papers

2. Experiments

Inleiding in experiment

2.1. Model

Pseudo code

Iets over de exacte stopconditie

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2.2. Probability

Discuss cluster size statistics, mean cluster size M and sd as a function p for finite clusters

Determine some vague fraction

2.3. System Size

How do the results change when the system size changes. Experiment with different latice sizes

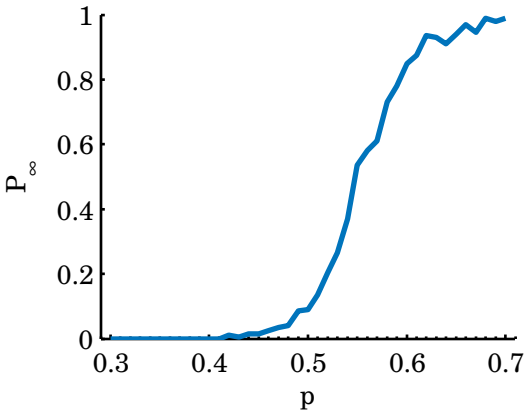

Figure 2: *Caption here*

Wat could the behavior be in the limit of infinite lattice sizes

2.4. Fractal Dimension

Bonus: Determine the fractal dimension of finite clusters as a function of p.

2.5. Connectivity

Present mask used previously, and 8-connected mask

How does the connectivity influence the final cluster

3. Conclusion

Vat bevindingen van experiment samen

*These authors contributed equally to this work.

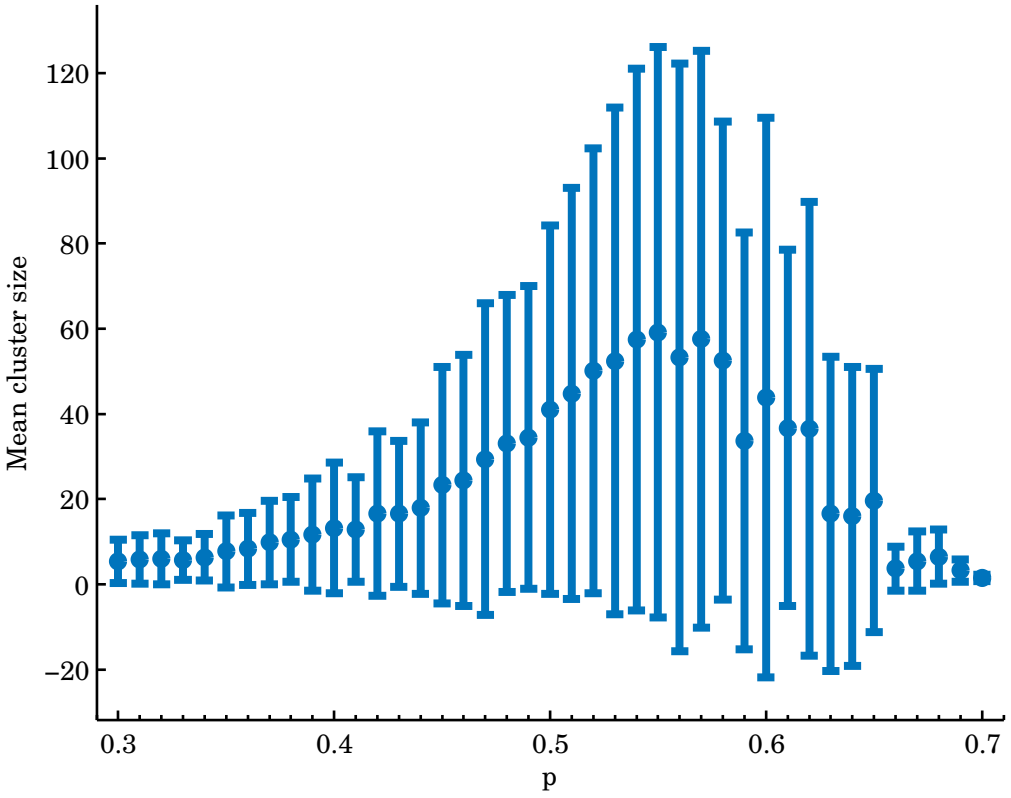

Figure 1: *Mean cluster sizes computing as a function of p.*