

# Modelling and Simulation

## Practical Assignment 2: Percolation

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### 1. INTRODUCTION

Iets over de toepassingen van dit model, bosbranden enzo

Wat gaan we doen in dit papers

### 2.5. CONNECTIVITY

Present mask used previously, and 8-connected mask

How does the connectivity influence the final cluster

### 2. EXPERIMENTS

Inleiding in experiment

### 3. CONCLUSION

Vat bevindingen van experiment samen

#### 2.1. MODEL

Pseudo code

Iets over de exacte stopconditie

#### 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 lattice sizes

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  $p$ .

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\*These authors contributed equally to this work.