

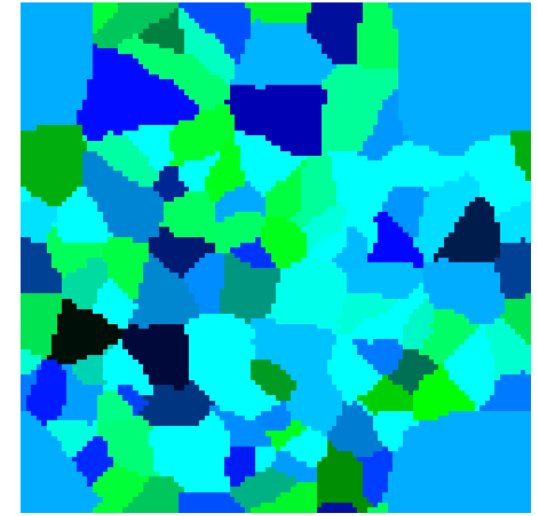
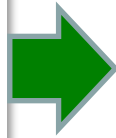
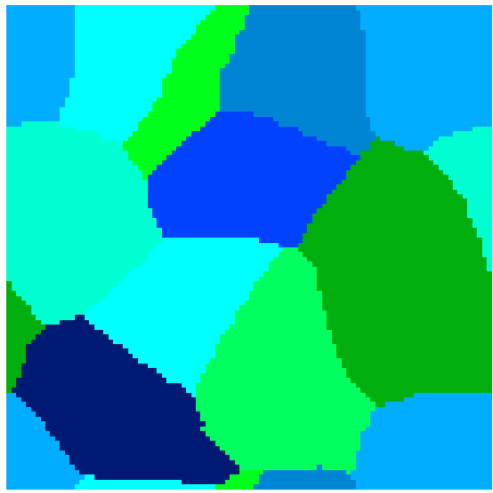


**AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY**

Multiscale Modelling

**Faculty of Metals Engineering and Industrial Computer Science
Department of Applied Computer Science and Modelling**

Step 1: Simple grain growth CA

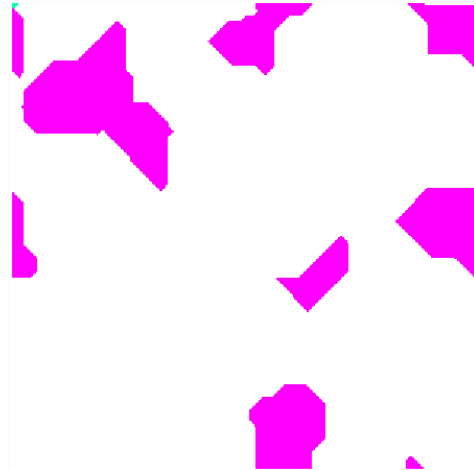
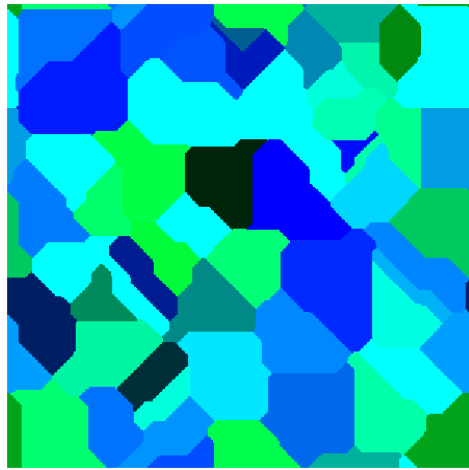


Step 2: Grains selection

Step 3: 2nd grain growth CA

Dual phase CA->CA

Step 1: Simple grain growth CA



Step 3: 2nd grain growth CA

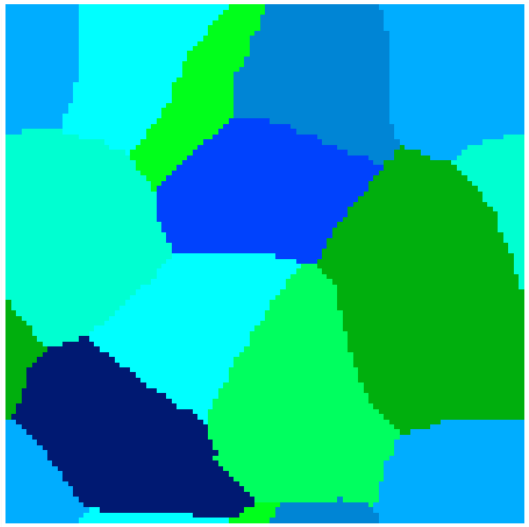


Step 2: Grains selection

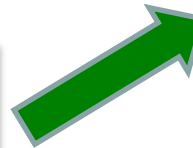


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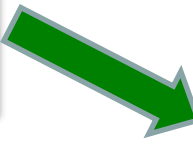
Step 1: Simple grain growth CA



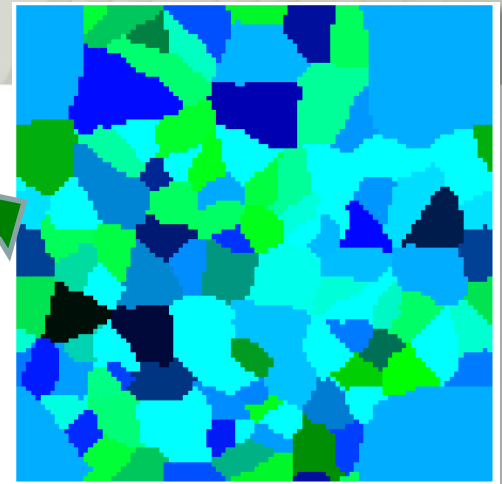
Step 2: Grains selection



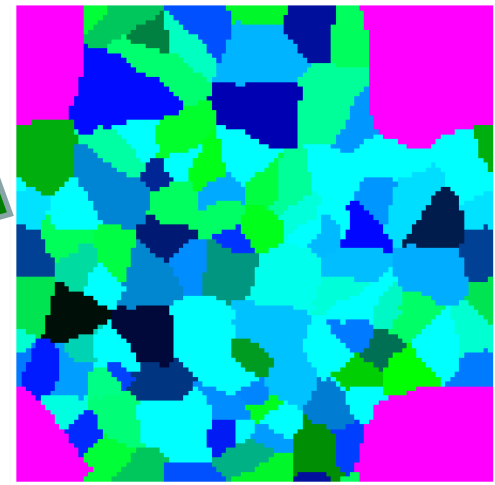
or



SUB



DP



| id | size | % |
|----|------|-------|
| 5 | 1749 | 17.49 |
| 8 | 1664 | 16.64 |
| 10 | 1201 | 12.01 |
| 1 | 939 | 9.39 |
| 7 | 611 | 6.11 |
| 2 | 714 | 7.14 |
| 3 | 395 | 3.95 |
| 4 | 838 | 8.38 |
| 9 | 1085 | 10.85 |
| 6 | 804 | 8.04 |

Grain Grown


Space size: 300 300 | Number of nucleation: 20 | Size of inclusion: []

Boundary condition: Absorbent | Neighborhood: Von Neumanna

Structure: []

Buttons: Start, Stop, Generate, Clear

Number of nucleation: [] | Grain boundary energy: [] | Number of steps: []



Inclusion: []

Structure: []

Buttons: Start, Stop, Generate, Clear



Grain Grown

Space size: 300 300 | Number of nucleation: 70 | Size of inclusion: []

Boundary condition: Absorbent | Neighborhood: Von Neumanna

Structure: Substructure

Buttons: Start, Stop, Generate, Clear

Number of nucleation: [] | Grain boundary energy: [] | Number of steps: []

Buttons: Initialize, Start MC

