## Lab 5, DIP1

In this lab we'll do morphological image processing. We'll count the number of connected components in a black/white image.

## Exercise 1

Implement a MatLab program that counts the number of grain of rice in the image 'rice.tif'. You must count the number of grains using the morphological method described in GW pp. 645-646 (use 4-connectivity and 8-connectivity). You can give the different connected components different colours, using the command *colormap*('lines').

## Exercise 2

Implement a MatLab program that counts the number particles in the image "dots.bmp" thats:

- 1. on the boundary of the image
- 2. overlapping
- 3. not overlapping

(Note: all particles are of the same size).