Exercise Sheet 3

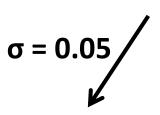
Probability Density Estimation

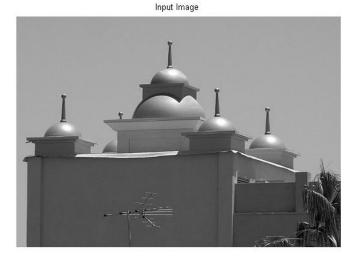
Till Rohrmann Jens Krenzin

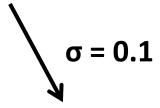
Problem 3.1 Data

Problem 3.1 Data

Input Image:







Output Image



Output Image

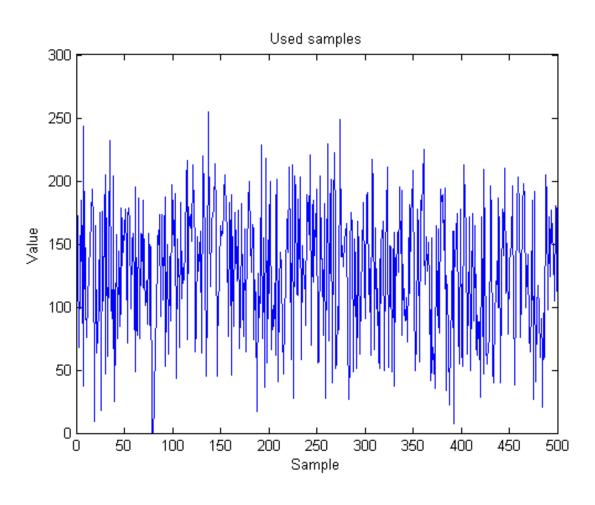


Values:

 $\sigma = 0.1$

P = 500

Used Samples:

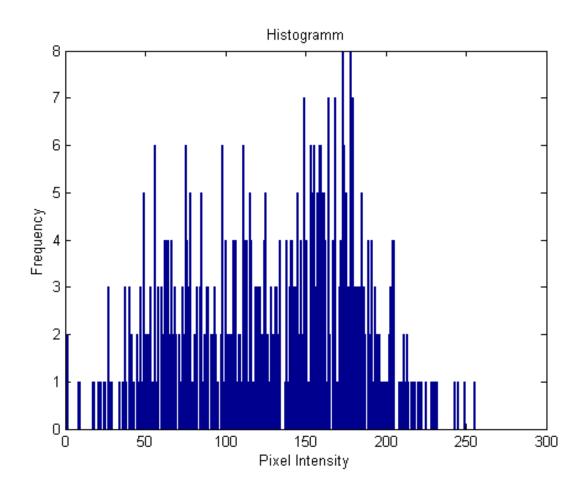


Values:

 $\sigma = 0.1$

P = 500

Histogramm version:

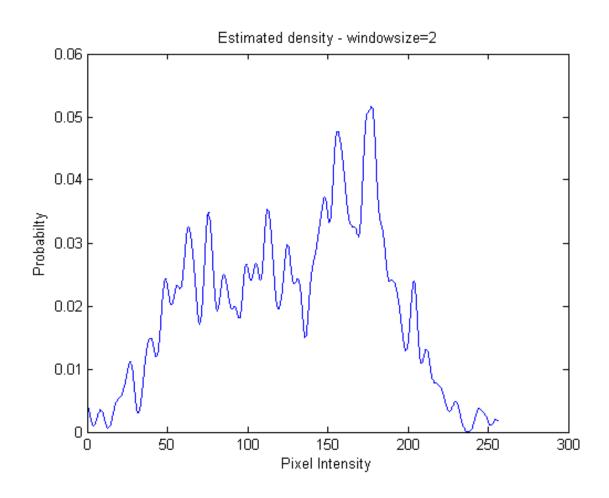


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 2)

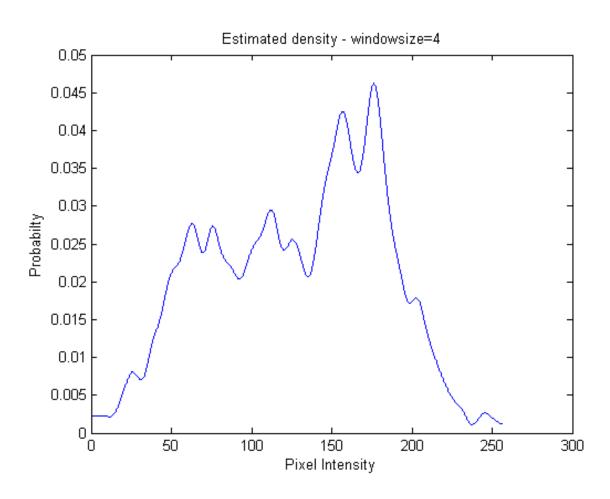


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 4)

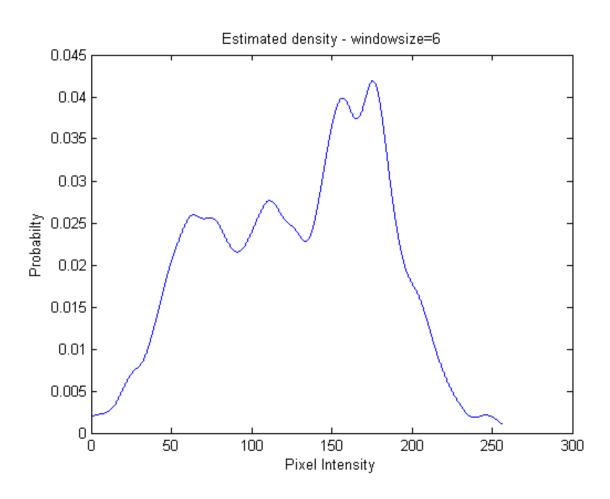


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 6)

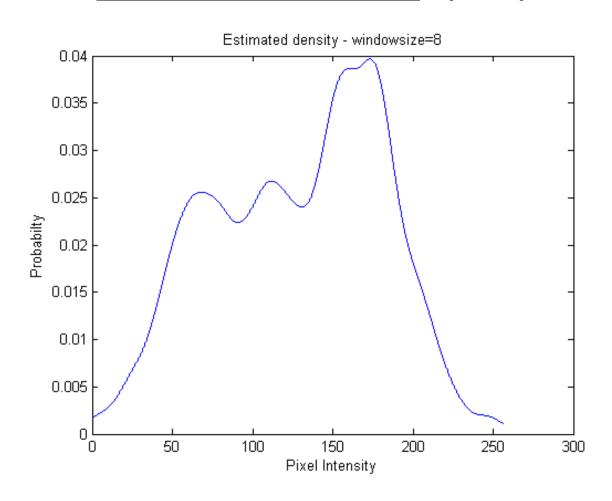


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 8)

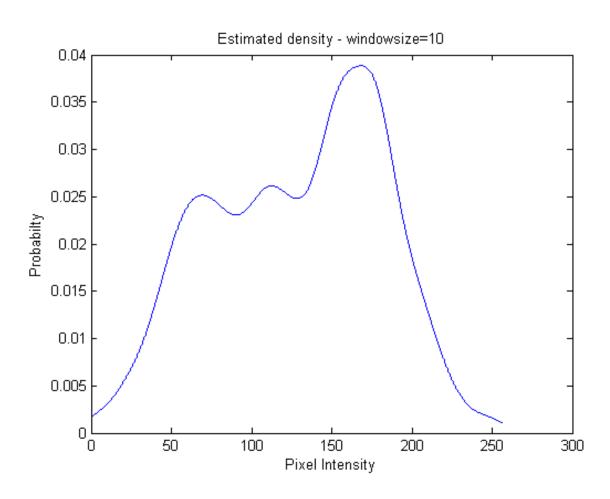


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 10)

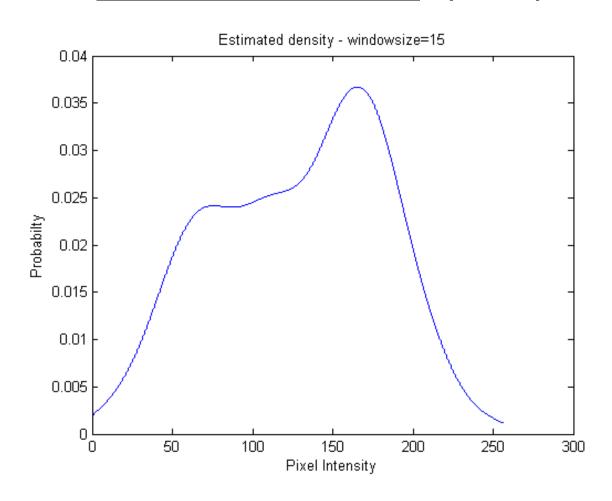


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 15)

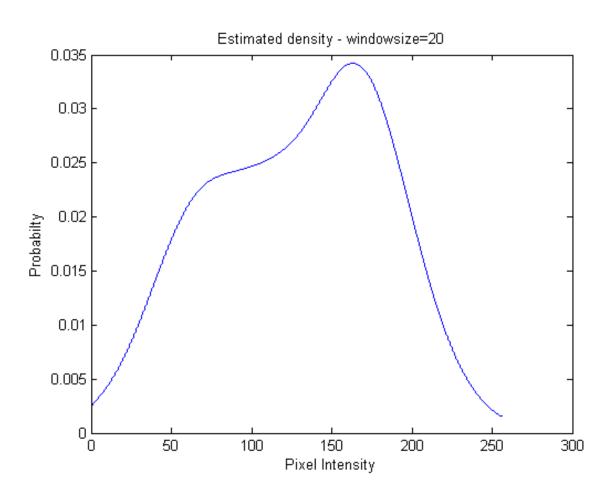


Values:

 $\sigma = 0.1$

P = 500

Gaussian kernel version: (h = 20)



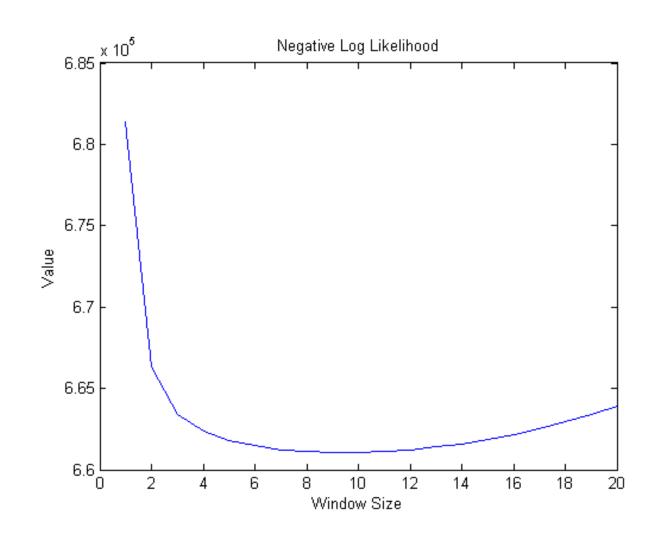
Values:

 $\sigma = 0.1$

P = 500

Minumum at:

h = 9 ... 12



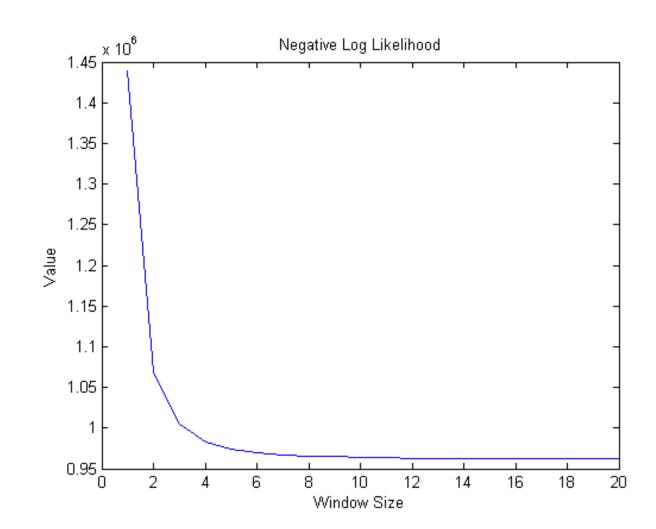
Values:

 $\sigma = 0.1$

P = 100

Minumum at:

h = 17 ... 19



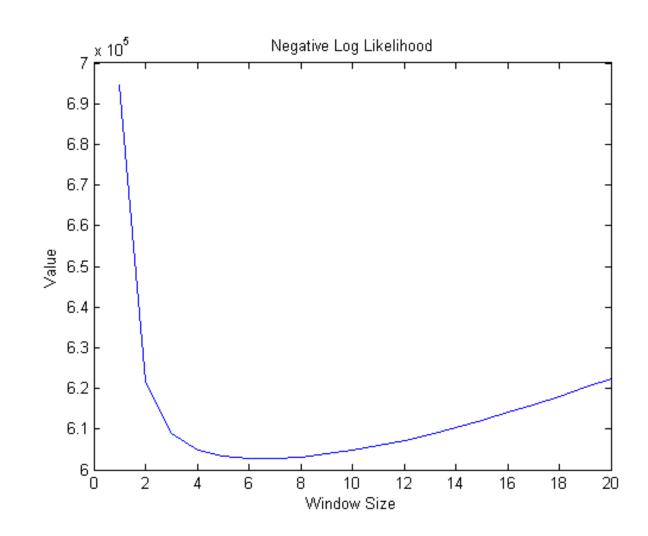
Values:

 $\sigma = 0.05$

P = 500

Minumum at:

h = 6 ... 8



Values:

 $\sigma = 0.05$

P = 100

Minumum at:

h = 10 ... 14

