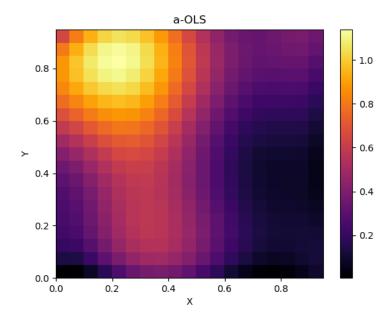
2. Mandatory assignment MAT2410 Autumn $2017\,$

Mikael Ravndal

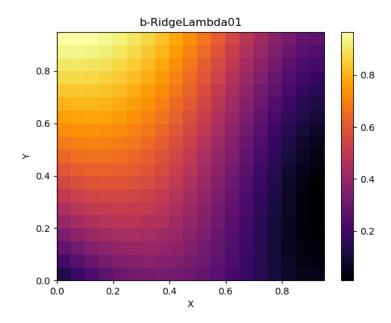
27. september 2018

All approximation is done with degree equals 5.

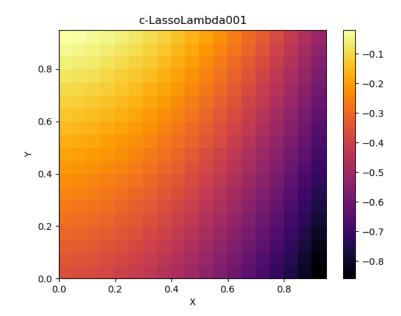
Part a) $\label{eq:continuous} \mbox{Ordinary Least square of the Frankefunction(the same as Ridge with $\lambda=0$):}$



Part b) Ridge Regression with $\lambda = 0.1$

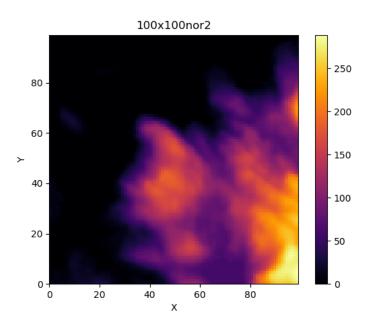


Part c) Lasso Regression with $\lambda = 0.01$



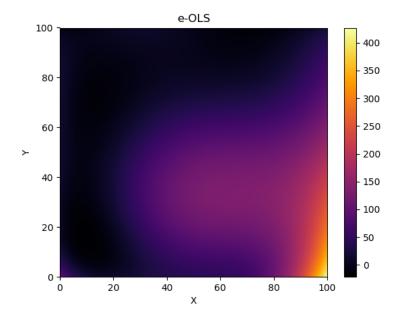
Part d)

Imports 100×100 chunk of real data from top left corner of dataset nr.1. Plot of real data

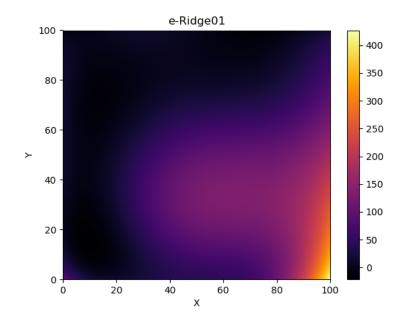


Part e)

Repeat of a-c, but with real data from d) OLS:



Ridge:



Lasso:

