Pattern Recognition. Overview

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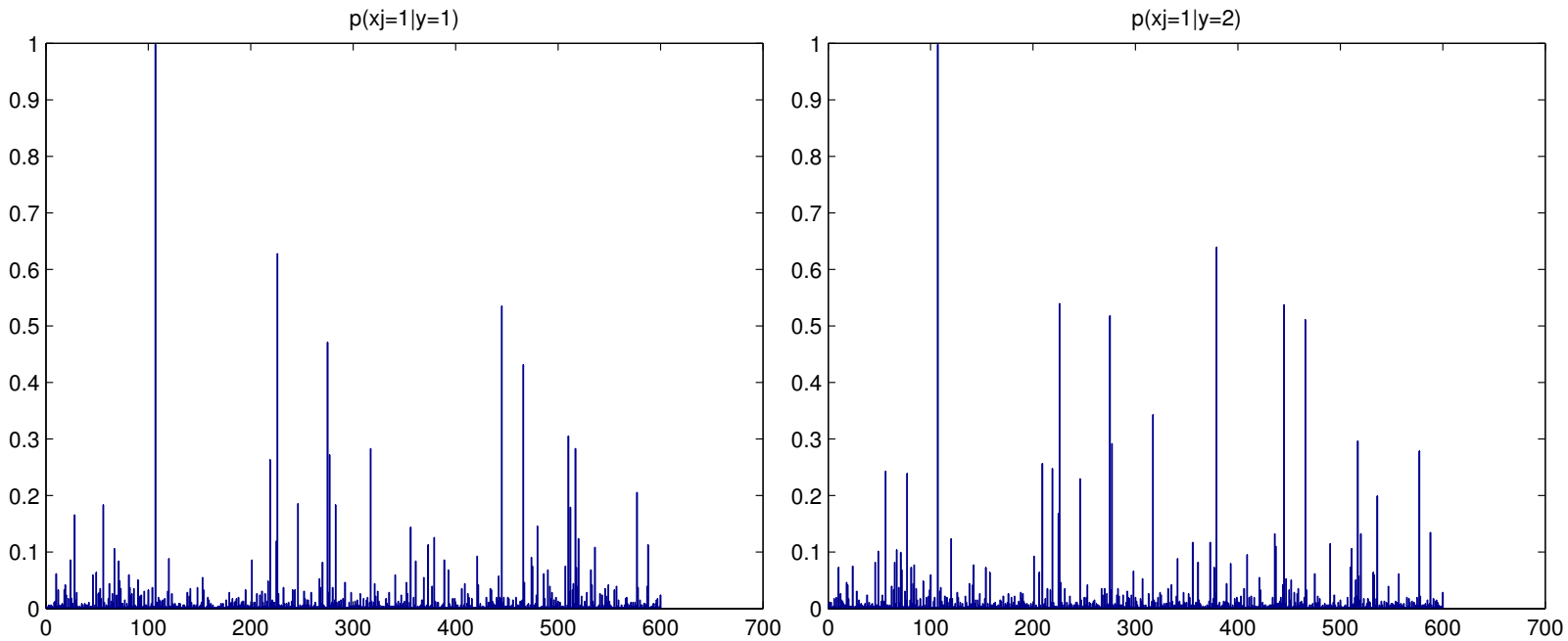
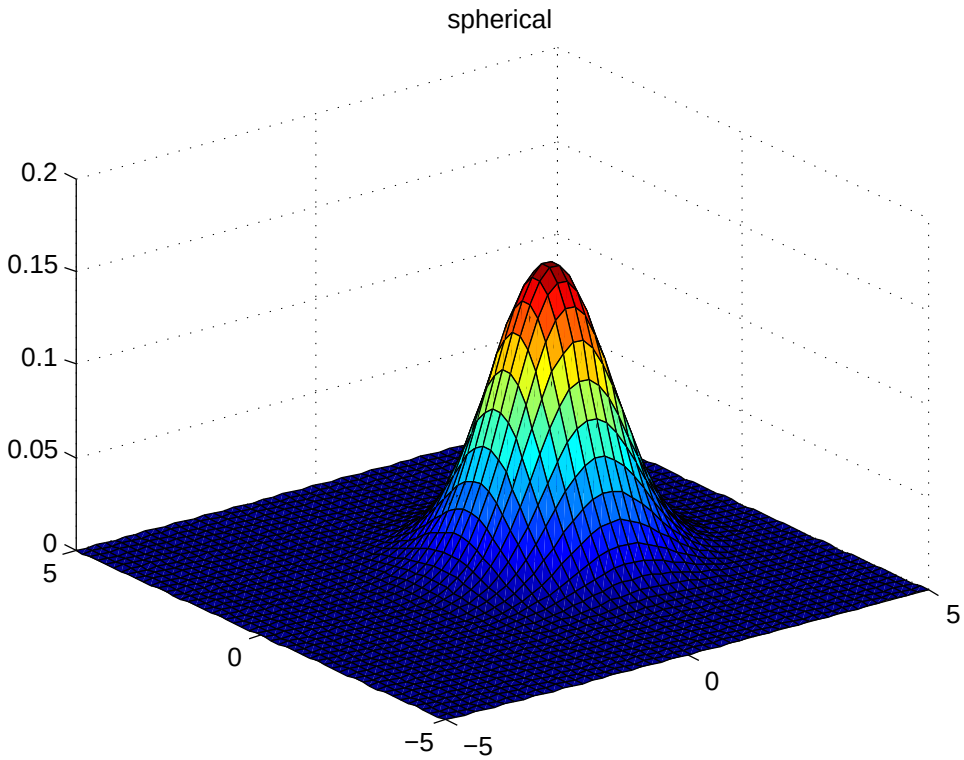
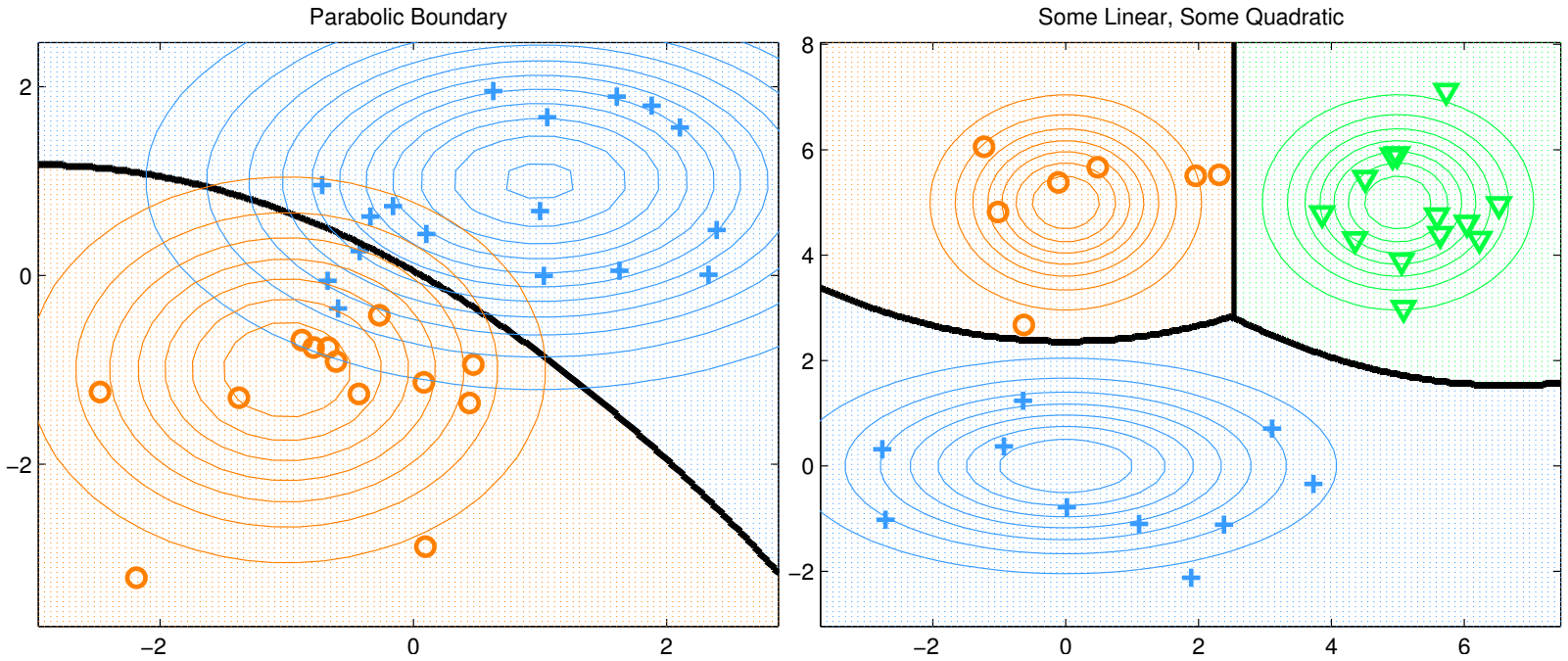
Outline

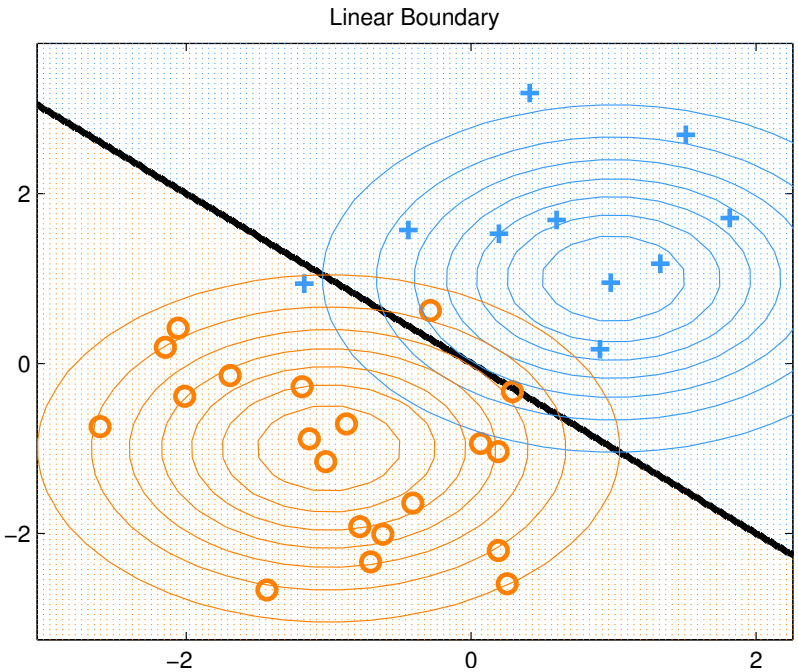
Example class conditional densitites for two class "X window" and MS Window"

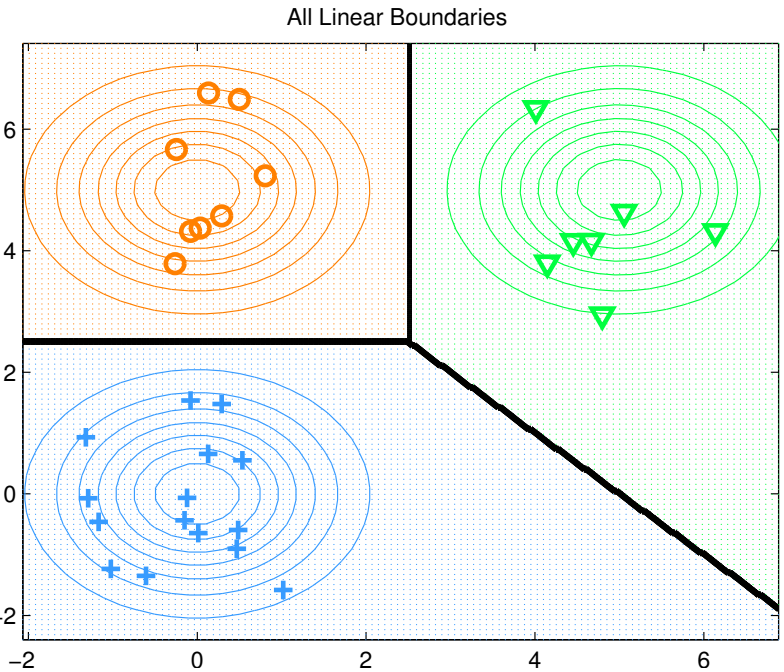


Spherical Gaussian distribtion

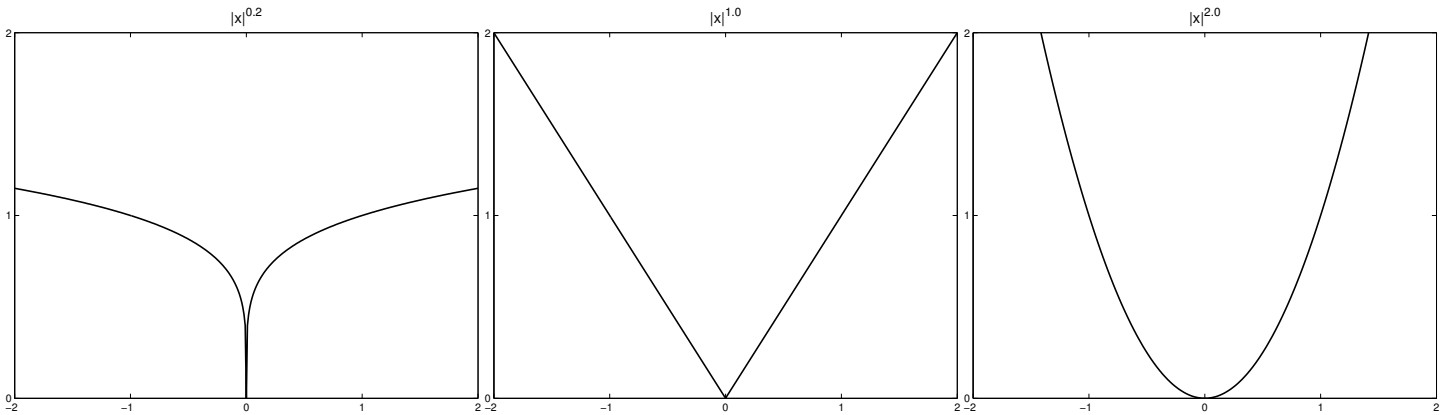



Parabolic Boundary
Some Linear, Some Quadratic
2
0
−2
−2
0
2
8
6
4
2
0
−2
−2
0
2
4
6

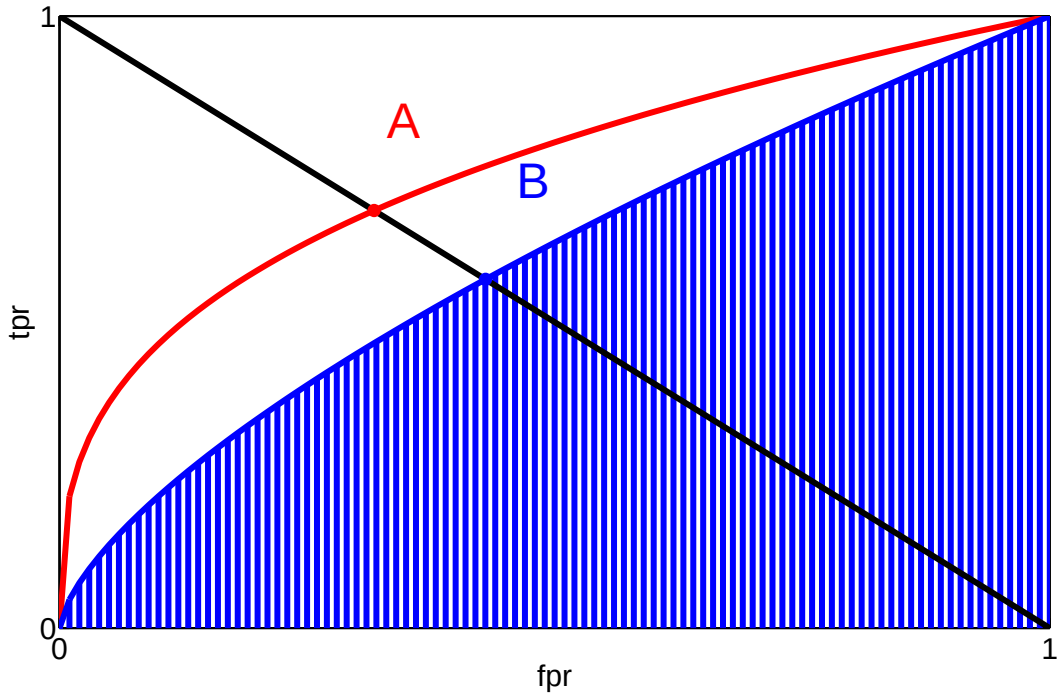

Linear Boundary
2
0
−2
−2
0
2


All Linear Boundaries
6
4
2
0
−2
−2
0
2
4
6

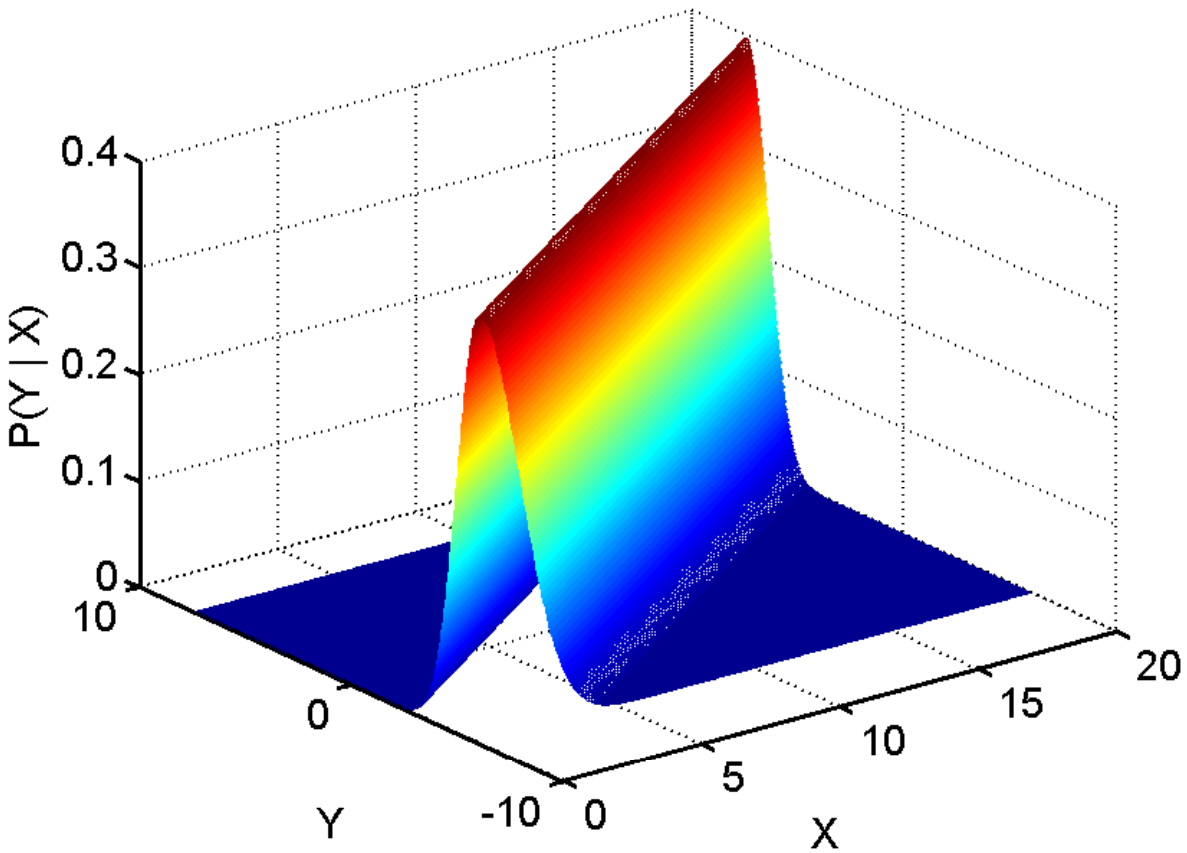
plot of various loss function $|x|^p$ for p = .2, 1 ,2



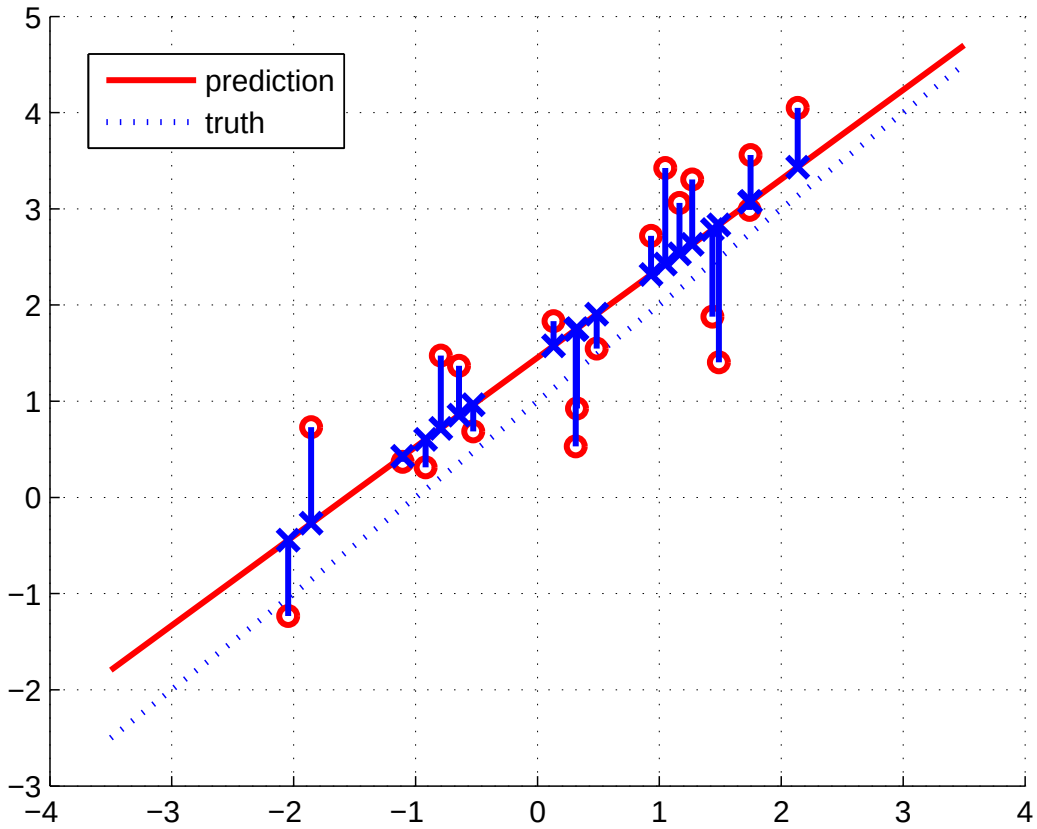
ROC curve for two class classification system A, B



Linear Regression with Gussian residual



Linear Regression with Gussian residual



Thank you!