 POLITECNICO DI MILANO

Dipartimento di
Elettronica e Informazione

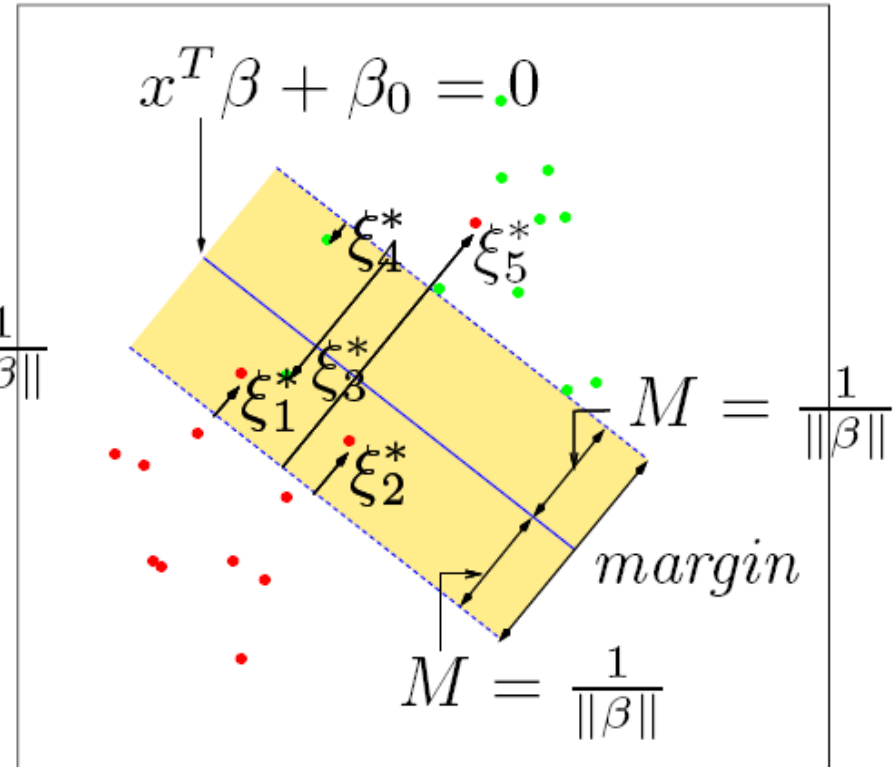
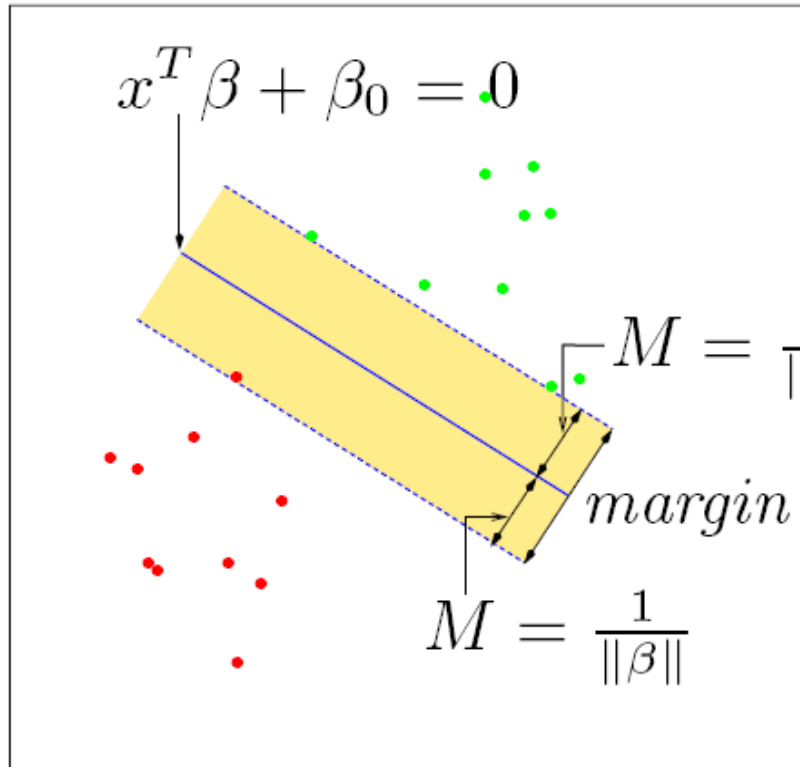
Pattern Analysis and Machine Intelligence

M. Matteucci, Luigi Malagò, Davide Eynard

matteucci@elet.polimi.it

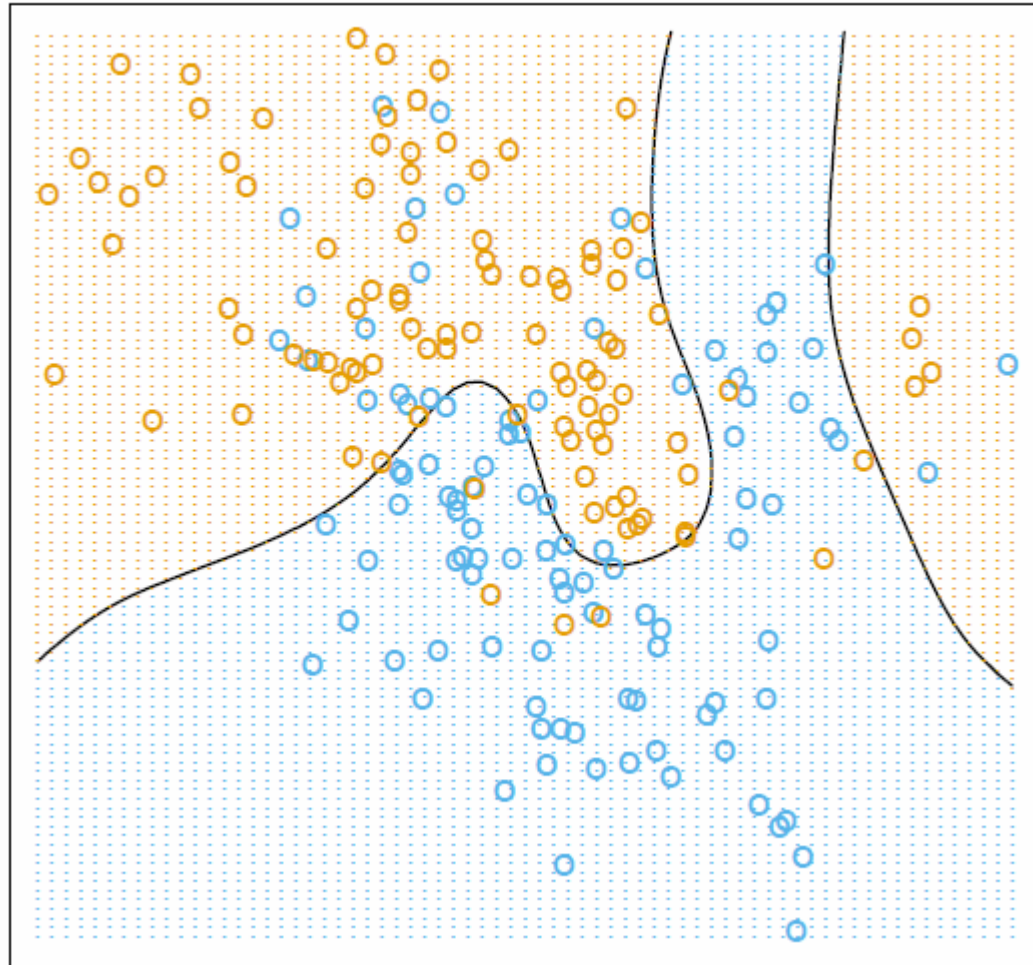
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Artificial Intelligence and Robotics Lab*

Maximum Margin Revised



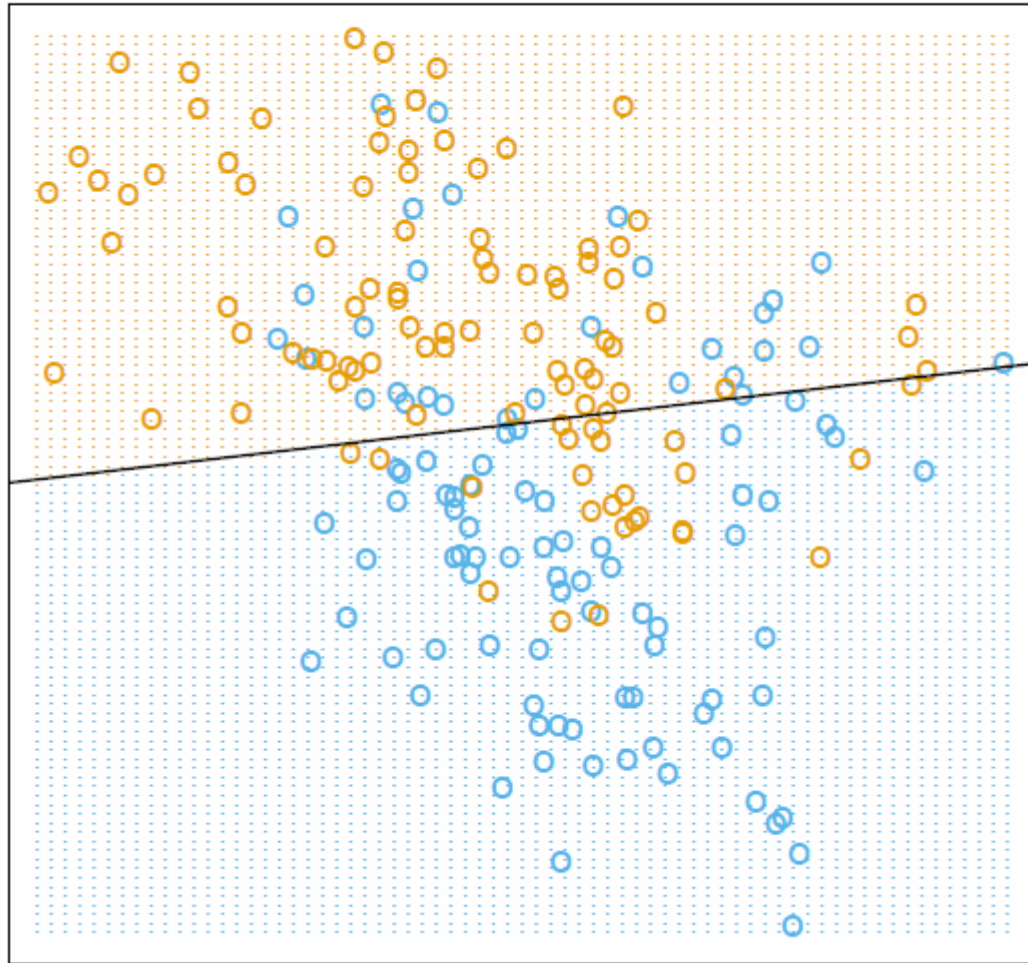
Optimal Bayes Classifier

Bayes Optimal Classifier

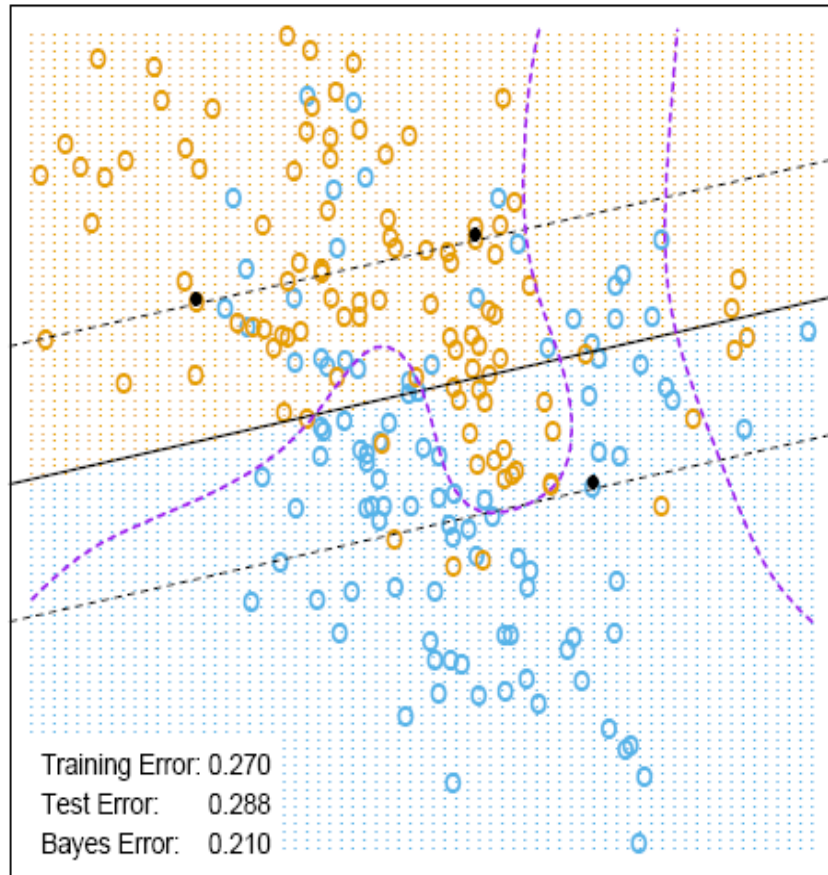


Linear Regression

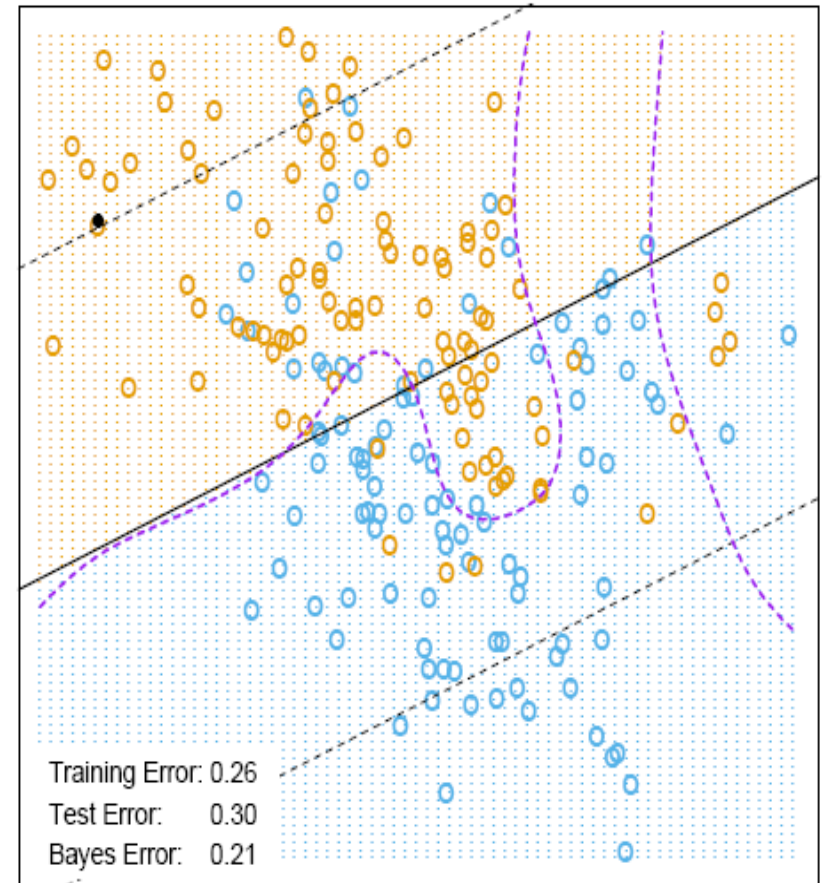
Linear Regression of 0/1 Response



Linear Support Vector Boundary



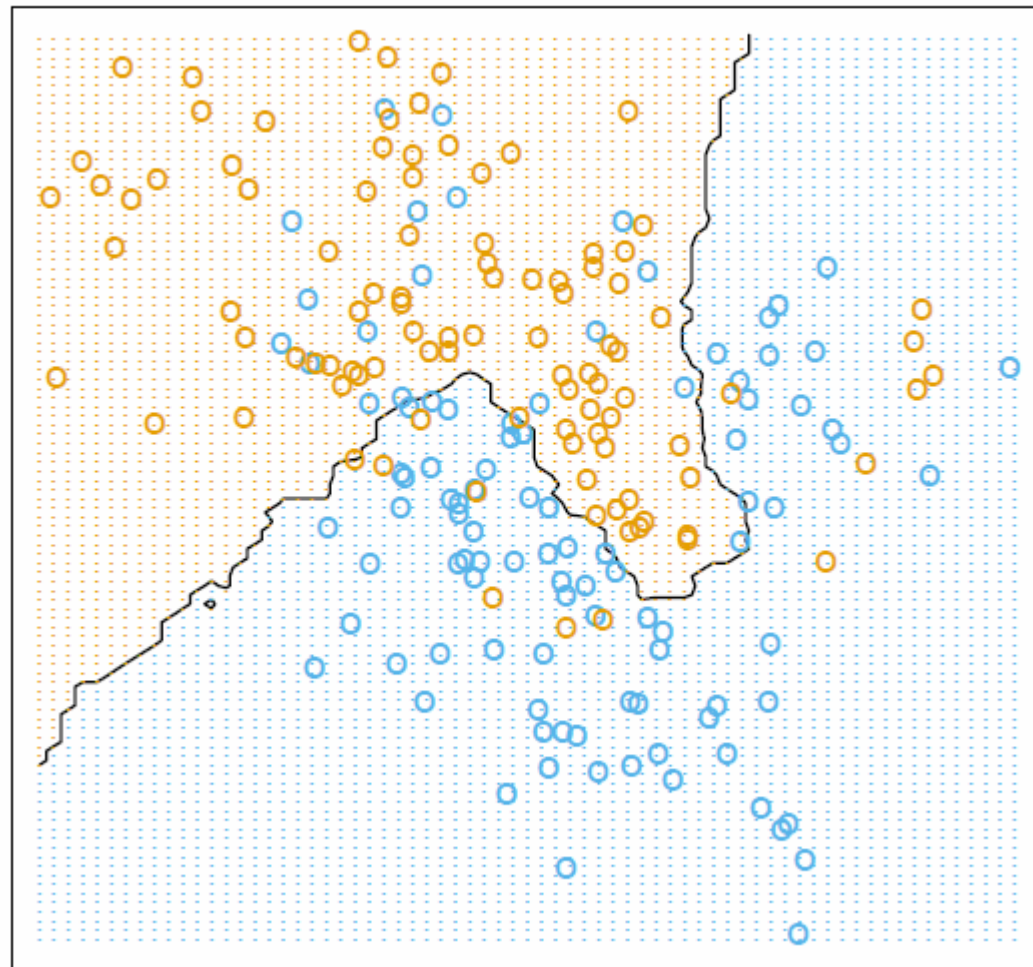
$C = 10000$



$C = 0.01$

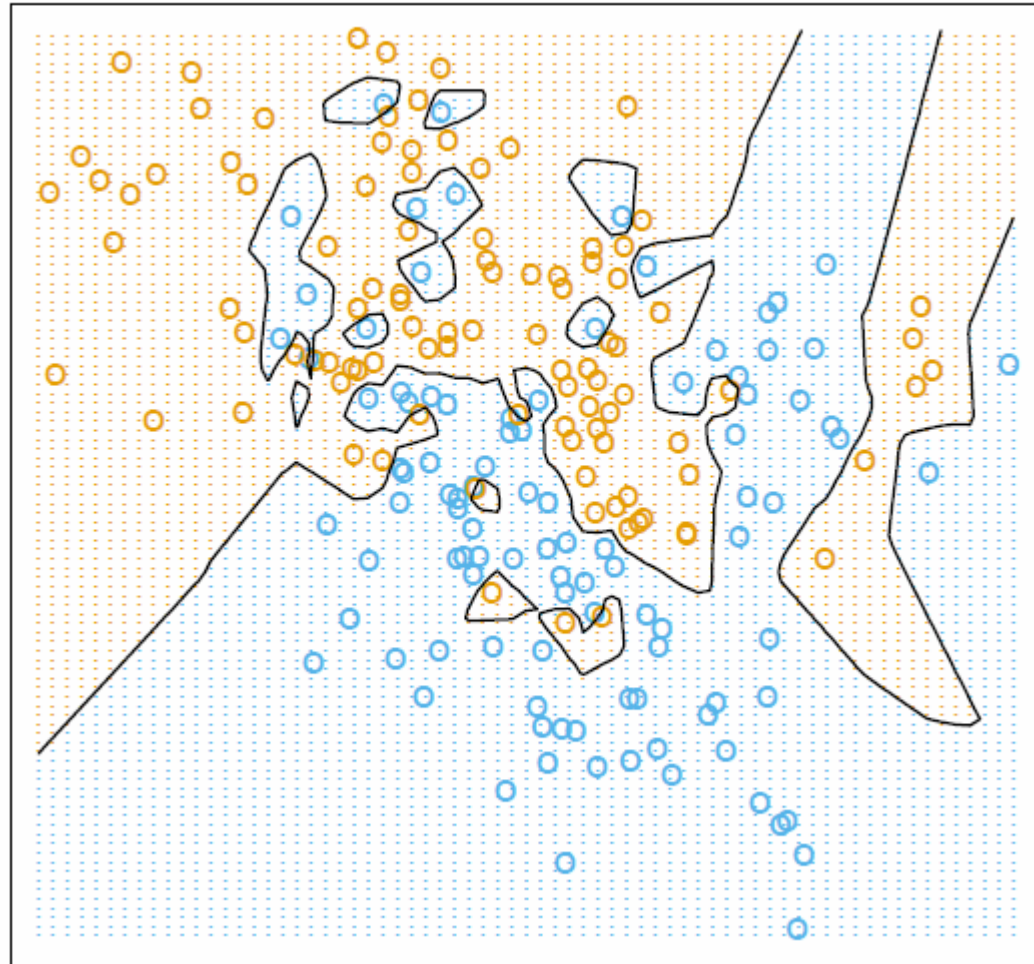
K - Nearest Neighbor Method (K = 15)

15-Nearest Neighbor Classifier



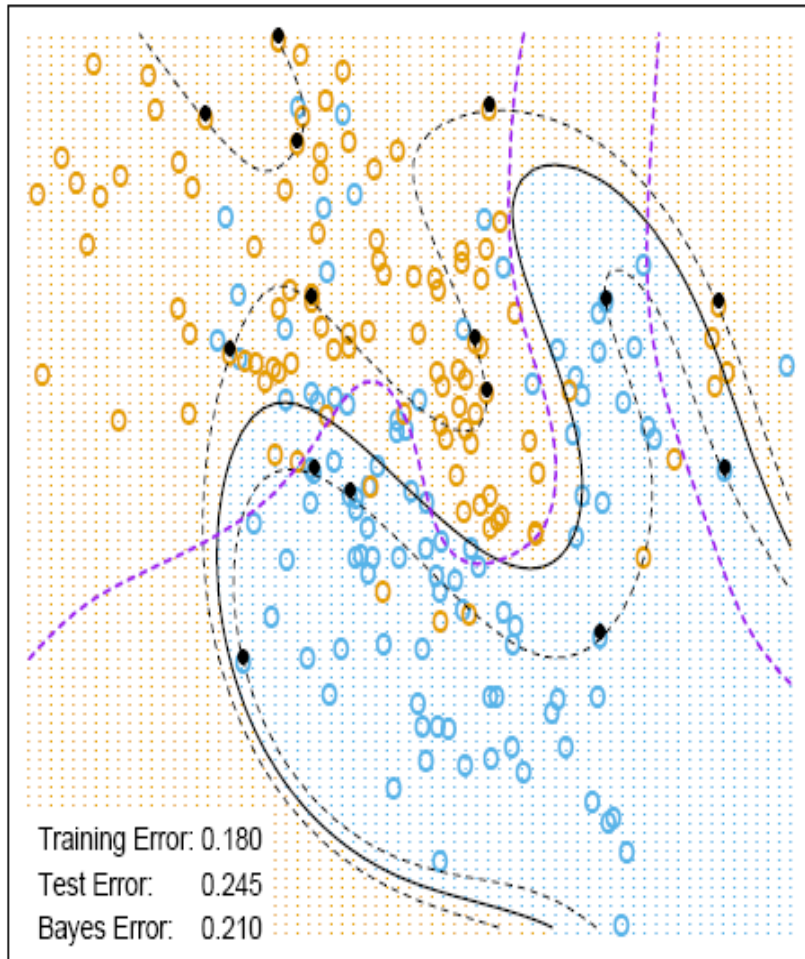
K - Nearest Neighbor Method (K = 1)

1-Nearest Neighbor Classifier



Non Linear SVM Boundary

SVM - Degree-4 Polynomial in Feature Space



SVM - Radial Kernel in Feature Space

