

Duality Formulaton of Max-Margin Classifier*

Arash Rouhani

February 28, 2011

Abstract

In this fake-paper I write a short mathematical explication of how to formulate the Max-Margin classifier in it's dual form. I go through it step by step.

1 Primal formulation

To be written ...

2 Lagrangian function

There will be as always 3 kinds of terms, coming from either the *the objective function*, *a constraint* or *a variable constraint*.

$$L(w, b, \xi, \lambda, \mu) = \frac{1}{2} ||w||_2^2 + \sum_{i=1}^n C\xi_i \quad (1)$$

*This is the first time I use latex