Research of Sth

Name
University of xxx
emailaddress

Abstract

1. Introduction

2. Related work

3. Experiment

3.1. Experiment1

4. Summary

5. Opinion

6. Formula symbol

α $\vec{w}$

$$L(\alpha, \omega) = \frac{1}{2}||\vec{\omega}||^2 + \sum_{i=1}^{n} \alpha_i [z_i(\omega^t x_i + \omega_0) - 1]$$

$$\min_{\omega_0, \vec{\omega}}(\max_{\alpha} Ł(\omega_0, \vec{\omega}, \alpha))$$

$$\frac{\partial L(\alpha, \omega)}{\partial \vec{\omega}} = 0$$

$$\vec{\omega} = \sum_{i=0}^{n} \alpha_i z_i \vec{x_i}$$

ω_0 to the function

$$\frac{\partial L(\alpha, \omega)}{\partial \vec{\omega_0}} = 0$$

$$\sum_{i=0}^{n} \alpha_i z_i = 0$$

$\xi = \xi_1, \xi_2, ..., \xi_n$

$$f(\vec{\omega}, \xi) = \frac{1}{2}||\omega||^2 + C\sum_{i=1}^{n} \xi_i$$

, subject to

$$\forall i, z_i(\vec{\omega}^t x_i + \omega_0) \geq 1 - \xi_i, \xi_i \geq 0$$

7. Figure

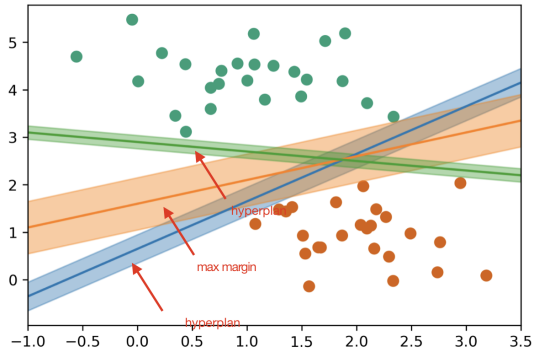

Figure 1. hyperplane candidates

8. Table

Name	Accuracy(C=1)	b
Primal	0.9713	3.1171
Dual	0.9167	1.0092

References

[1] Advantage of svm.

[2] Machine learning, 2017.

[3] Support vector machine, August 2018.