Freitag, 23. Juni 2023 14:33

i) Dreussed it class.

min 211w12+ = = 5?

 S^{-1} . $Z_{i}(y)(\langle \omega, \phi(x_{i}, y) \rangle + \theta_{i}) \geq 1 - \xi_{i}$ $\xi_{i} \geq 0$ $\forall i = 1, ..., u, \forall y \in Y$

Brild Cagnerja:

with 0:(4)>0 2 Hi=1,..., h | since

is max wit. I and wit wit. W. &

$$\frac{\partial L}{\partial \xi_i} = C\xi_i - \xi\alpha_i(y) \stackrel{!}{=} 0$$

$$= \sum_{i=1}^{n} \xi_{i} = \frac{1}{C} \xi_{i} = \frac{1}{C} \xi_{i} = 0$$

me de not need to enforce
postivity of s;

$$\frac{\partial L}{\partial \omega} = \omega - \frac{\partial}{\partial z} \mathcal{E}_{x_i(y)} \mathcal{E}_{x_i(y)} \mathcal{E}_{x_i(y)} \mathcal{E}_{x_i(y)} = 0$$

$$\frac{\partial C}{\partial \theta_{i}} = -\frac{E}{2} \propto_{i}(y_{1} + i(y_{1})) = 0$$

$$= \frac{E}{2} \times_{i}(y_{1} + i(y_{1})) = 0$$

$$= \frac{E}{2}$$

with lei (4,4) = (0(xi,4), 0(x), 4)>

max wit ox ! iii) It we defire KC (4,4) = (\$ (x; 4), \$ (x; 4) > + 1 Zi(41 Zi(4') $\forall i \neq j \in \mathcal{U}_{ij}^{\ell} \left(\gamma, \overline{\gamma} \right) = k_{ij} \left(\gamma, \overline{\gamma} \right)$ write the dual of $-\frac{1}{2}\left(\frac{2}{5}\frac{2}{5}\frac{2}{5}\frac{2}{5}\alpha_{i}(y)\alpha_{j}(\overline{y})\right) + \left(\frac{1}{2}(\overline{y})K_{ij}(y)K_{ij}(y)K_{ij}(y)\right) + \left(\frac{4}{5}\frac{2}{5}\alpha_{i}(y)\right)$ because all terms in A with i=j sum ap to $-\frac{1}{2} \stackrel{6}{=} \stackrel{6}{=} \stackrel{6}{=} (4) \stackrel{6}{=} (4) \stackrel{7}{=} (4) \stackrel{7$ = - 12 E E Ki(41 X; (4) 2; (4) Z; (4) K; (4, 4) - 2 5 5 7 x:(4) a; (4) [2; (4) 2; (4)]. 1 = B - 1 & E & x:(4) x:(4) ai(4) additioned here