



Lo GE continued

celhen WE

discuss

Multi-Cayen Pencepton

(MCPs).

$$y = \phi(\omega^T x + \omega_s)$$

where
$$\phi(x) = \begin{cases} 1, & x > 0 \\ -1, & x < 0 \end{cases}$$

orgentie:
$$E_{\rho}(\omega_{1}\omega_{0}) = -\sum_{n \in \mathbb{N}} (\omega_{1} \times \omega_{n} + \omega_{0}) t_{n}$$

fet: $\sum_{n \in \mathbb{N}} (\omega_{1} \times \omega_{0}) = -\sum_{n \in \mathbb{N}} (\omega_{1} \times \omega_{n} + \omega_{0}) t_{n}$
 $M = \sum_{n \in \mathbb{N}} (\omega_{1} \times \omega_{0}) = -\sum_{n \in \mathbb{N}} (\omega_{1} \times \omega_{n} + \omega_{0}) t_{n}$

Learning algorithm:
$$\omega(t) = \omega(t) - \gamma = \frac{\partial J(\omega, \omega_0)}{\partial \omega(t)}$$

$$\omega_0(t+1) = \omega_0(t) - \gamma = \frac{\partial J(\omega, \omega_0)}{\partial \omega(t)}$$

$$\omega_0(t+1) = \omega_0(t) - \gamma = \frac{\partial J(\omega, \omega_0)}{\partial \omega_0(t)}$$

it uses one time to make an update to w and wo Online tenning t = iteration

