BP 神经网络的反向传播计算

Sunday, September 29, 2024 4:52 PM
对BP神经网络,由于总的误差为:
C= 1 Z (do -4)2 我们希望得到误差对梯度
EXT.
$\frac{\partial e}{\partial W_{ho}} = \frac{\partial e}{\partial Y_{i}} \cdot \frac{\partial Y_{i}}{\partial W}$
41 2e 7(15(d2-4)2) (1.) 1240
$\frac{1}{1} + \frac{\partial e}{\partial y_i} = \frac{\partial \left(\frac{1}{2} (d_0 - y_0)^2\right)}{\partial y_i} = \left(\frac{1}{2} (d_0 - y_0)^2\right) - \frac{\partial y_0}{\partial y_i}$
专虎到
$y_{o} = f_{2}(y_{i}), \mathcal{D}_{i}$
$\frac{\partial e}{\partial y_i} = -(d_0 - y_0) \cdot f_z(y_i)$ $\chi, y_i = \sum w_{ho} \cdot h_0 + b_{ho}$
$77: 34: \frac{34i}{3w_{no}} = h_0 \longrightarrow 33i - \frac{3e}{3w_{no}} = -(d_0 + y_0)f_1(y_i) \cdot h_0$
取分。=(do-yo) fz(yi), ri=2e = - Soho A
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②. 隐藏层误差:由: Je - Je · Jhi 有:
Z: ho=f(hi), Right = -So. Whof, (hi) = IX: Sh= So wo f(h
而: this is the state of the st
$\frac{\partial h_i}{\partial w_{ih}} = x_i + \frac{1}{1} \frac$
To Win = - So Who fi (hi) · X:
$=-S_{i} \times i $

