1. 正向度接

$$Q_{11} = \frac{1}{1 + e^{-z_{11}}}$$

输出

2.反同径播

沙计算提来函数

$$E = \sum_{i=1}^{n} (Y - \hat{y})^2$$

(广目标直, 分:预测值)

$$E_2 = \frac{1}{2}(Y_2 - \hat{Y}_2)^2$$

$$E = -\frac{1}{2}(12 + 1)$$

(2) 隐藏度(h)→输出版权硬新 <u>JE</u> - <u>JE</u> , <u>JOU</u> , <u>JZL</u> , <u>JW</u> , <del>JW</del> , <del>JW</del> ,

D对算 DE

$$E = \frac{1}{2} (Y_1 - \hat{y}_1)^2 + \frac{1}{2} (Y_2 - \hat{y}_2)^2$$

$$= \frac{1}{2} (Y_1 - \hat{y}_2)^2 + \frac{1}{2} (Y_2 - \hat{y}_2)^2$$

$$\partial \frac{\partial u_1}{\partial z_{21}} = \frac{-e^{-z_{21}}}{(1+e^{-z_{21}})^2} = \frac{1}{(1+e^{-z_{21}})^2} \cdot \frac{-e^{-z_{21}}}{(1+e^{-z_{21}})^2} = \frac{1}{(1+e^{-z_{21}})^2} \cdot \frac{-e^{-z_{21}}}{(1+e^{-z_{21}})^2}$$

$$\frac{\partial E}{\partial W_{21}} = (\Omega_{21} - Y_1) - [\Omega_{21} \cdot (1 - \Omega_{21})] \cdot \Omega_{11}$$

$$\frac{\partial E}{\partial W_{23}} = (\Omega_{22} - \gamma_2) \cdot [\Omega_{22} \cdot (I - \Omega_{22})] \cdot \Omega_{11}$$

$$\frac{\partial \mathcal{M}_{1}}{\partial E} = \frac{\partial \mathcal{L}_{1}}{\partial E} \cdot \frac{\partial \mathcal{L}_{1}}{\partial Z_{1}} \cdot \frac{\partial \mathcal{L}_{1}}{\partial Z_{1}} \cdot \frac{\partial \mathcal{L}_{1}}{\partial Z_{1}}$$

$$\frac{\partial E_{1}}{\partial \alpha_{11}} = \frac{\partial E_{1}}{\partial \alpha_{11}} + \frac{\partial E_{2}}{\partial \alpha_{21}} \cdot \frac{\partial Z_{21}}{\partial \alpha_{21}} \cdot \frac{\partial Z_{21}}{\partial \alpha_{11}}$$

$$\frac{\partial E_2}{\partial \Omega_{11}} = \frac{\partial E_2}{\partial \Omega_{22}} \cdot \frac{\partial \Omega_{22}}{\partial Z_{22}} \cdot \frac{\partial Z_{22}}{\partial \Omega_{11}}$$

$$= (\Omega_{22} - Y_2) \cdot [\Omega_{22} \cdot (-\Omega_{22})] \cdot W_{23}$$

$$W_{11}^{\dagger} = W_{11} - \eta \frac{\partial E}{\partial W_{11}}, \qquad W_{12}^{\dagger} = W_{12} - \eta \frac{\partial E}{\partial W_{12}}$$

$$W_{13}^{\dagger} = W_{13} - \eta \frac{\partial E}{\partial w_{13}}, \qquad W_{14}^{\dagger} = W_{14} - \eta \frac{\partial E}{\partial w_{14}}$$