$$Net_{h_1} = W_1 \dot{i}_1 + W_2 \dot{i}_2 + b_1$$

$$Out_{h_1} = \frac{1}{1 + e^{-net_{h_1}}}$$

$$00t_{h2} = \frac{1}{1 + e^{-net_{h2}}}$$

$$Net_{oi} = W_{s} \ 00t_{hi} + W_{s} \ 00t_{h2}$$

$$00t_{oi} = \frac{1}{1 + e^{-net_{h2}}}$$

$$\frac{\partial E_{total}}{\partial W_{i}} = \frac{\partial E_{01}}{\partial OUt_{01}} \times \frac{\partial OUt_{01}}{\partial Net_{01}} \times \frac{\partial Net_{01}}{\partial W_{i}}$$

= 
$$\pm \times 2($$
 tag et., -  $0UE_{01}) \times (-1)$ 

$$\frac{\partial E_{total}}{\partial W_{i}} = \frac{\partial E_{total}}{\partial OUt_{h_{i}}} \times \frac{\partial OUt_{h_{i}}}{\partial Net_{h_{i}}} \times \frac{\partial Net_{h_{i}}}{\partial W_{i}}$$

$$= \left(\frac{\partial E_{0i}}{\partial OUt_{h_{i}}} + \frac{\partial E_{0i}}{\partial OUt_{h_{i}}}\right) \times \frac{\partial OUt_{h_{i}}}{\partial Net_{h_{i}}} \times \frac{\partial Net_{h_{i}}}{\partial W_{i}}$$

$$= \left(\frac{\partial E_{0i}}{\partial Net_{0i}} \times \frac{\partial Net_{0i}}{\partial OUt_{h_{i}}} + \frac{\partial E_{0i}}{\partial Net_{0i}}\right) \times \frac{\partial Net_{h_{i}}}{\partial Net_{h_{i}}} \times \frac{\partial Net_{h_{i}}}{\partial Net_{h_{i}}}$$

$$N_{i}^{+} = N_{i} - \eta \times \frac{\partial E_{total}}{\partial W_{i}}$$