E for a training sample: $\frac{1}{2}\sum_{J}\left(t_{J}-o_{J}\right)^{2}$

INPUT LAYER

LAYER

LAYER

Net;

$$O_K = x_K$$
 $O_C = x_C$
 $O_K = x_K$
 $O_C = x_C$
 $O_C = x_C$

$$\frac{\partial E}{\partial w_{ki}} = \frac{\partial E}{\partial o_{j}} \frac{\partial o_{j}}{\partial net_{j}} \frac{\partial net_{j}}{\partial o_{i}} \frac{\partial o_{i}}{\partial net_{i}} \frac{\partial net_{i}}{\partial w_{ki}} = -\frac{1}{2} \sum_{k=1}^{\infty} \frac{\partial v_{ki}}{\partial w_{ki}} = -\frac{1}{2} \sum_{k=1}^{\infty} \frac{\partial v_{$$

If, e.g., neuron i is connected to more output neurous, we have: $S_i = f'(\text{net}i) \sum_i S_j w_{ij}$