CV大作出理论部分

卷秋层:

前向传播:

反问传播:

"
$$\frac{\partial L}{\partial b} = \sum_{i=1}^{2} \sum_{j=1}^{2} \frac{\partial L}{\partial 0_{ij}} \frac{\partial 0_{ij}}{\partial b} = \sum_{i=1}^{2} \sum_{j=1}^{2} \frac{\partial L}{\partial 0_{ij}}$$

(2)
$$\frac{\partial L}{\partial W_{ij}} = \sum_{\alpha=1}^{2} \sum_{b=1}^{2} \frac{\partial L}{\partial \Omega_{ib}} \frac{\partial O_{\alpha b}}{\partial W_{ij}} = \sum_{\alpha=1}^{2} \sum_{b=1}^{2} \frac{\partial L}{\partial \Omega_{b}} \cdot Lita-1, j+b-1$$

(i)
$$X_{1}^{2} = \frac{\partial L}{\partial D_{1}} \cdot W_{11}$$
, $\frac{\partial L}{\partial L_{13}} = \frac{\partial L}{\partial D_{12}} \cdot W_{12}$
 $\frac{\partial L}{\partial L_{31}} = \frac{\partial L}{\partial D_{21}} \cdot W_{21}$, $\frac{\partial L}{\partial L_{33}} = \frac{\partial L}{\partial D_{22}} \cdot W_{22}$

(ii) 对于中心交流: I22

$$\begin{array}{c} I = \frac{\partial L}{\partial I_{22}} = \frac{\partial L}{\partial O_1} \cdot W_{22} + \frac{\partial L}{\partial O_{12}} \cdot W_{21} + \frac{\partial L}{\partial O_{21}} \cdot W_{12} + \frac{\partial L}{\partial O_{22}} \cdot W_{11} \\ \text{(iii)} \quad & \forall \vec{J}, \ \vec{J}$$

$$\frac{\partial I}{\partial I_{12}} = \frac{\partial L}{\partial O_{11}} \cdot W_{12} + \frac{\partial L}{\partial O_{12}} \cdot W_{11}$$

$$\frac{\partial I^{3}}{\partial \Gamma} = \frac{\partial I^{3}}{\partial \Gamma} \cdot M^{3} + \frac{\partial I}{\partial \Gamma} \cdot M^{1}$$

$$\frac{\partial L}{\partial L_{23}} = \frac{\partial L}{\partial O_{12}} \cdot W_{22} + \frac{\partial L}{\partial O_{21}} \cdot W_{12}$$

$$\frac{\partial L}{\partial I_{32}} = \frac{\partial L}{\partial 0_{21}} \cdot W_{22} + \frac{\partial L}{\partial 0_{32}} \cdot W_{21}$$

池化层 (以最大池化为例)

前向传播:

反何传播:

$$\frac{\partial \Gamma}{\partial \Gamma} = \frac{\partial \Gamma}{\partial \Gamma} \cdot \frac{\partial \Gamma}{\partial \Gamma}$$

- (1) 若是取最大值的缝置,则30=1 则是=此
- (ii) 若禔取最大值印位置。则30=0