

capafully connect?

Solution

$$\int_{i=1}^{\infty} \int_{j=1}^{\infty} \sum_{k'=1}^{\infty} w_{ijk}^{ij'k'} x_{i'j'k'} x_{i'j'k'}$$

Nparame =  $[(I-2)(J-2)k_2]\times(I\times J\times k_1)+(J-2)(I-2)+k_2$ Nmultiplications =  $(I-2)(J-2)k_2\times I\times J\times k_1$ 

(b) Q: CNN 3×3× K,

Colutia

$$y_{ijk} = \sum_{m=1}^{3} \sum_{n=1}^{3} \frac{k_{i}}{\sum_{k' \geq 1}} h_{mnk'k} \chi_{(i+m-2)(j+n-2)k'} + b_{ij'k}$$

Nparams = (3×3×K1)×K2+K2

Nmult = (I-2)(J-2) K2 x3 x8,

## (1) a differences?

Solution

Dp a ramelers	fully connected massive	CNN significantly fewer n
otraining time omenomy requirement	longer	fast
@multipli-	higher a large number	lower
Googluring local pattern	less effective	eff ectively