23-52-04

(a)Q: Xijk → Jijk ? parameters?

Solution () understand XIA SONG assistant

A fully connected layer generally squeezes

any input into a one-dimensional vector

So, an image with PXQXD is turned into a IXPQD vector, Thus I think the solution PQC PQD tPQD is correct

②逐行扫描

③W矩阵·X列烷

$$\frac{pac}{w} = \int_{x}^{pac} pad = \int_{x}^{pad} pad$$

So parameters = PQDxpQC+PQD

Oscalar form

Cb) CNIY?

$$\int_{u=-1}^{1} \sum_{v=-1}^{C} \sum_{i=1}^{C} w_{u,v,i,k} X_{i-u,j-v,i} + b_{k}$$

$$3 \times 3 \times C \times D + D = 9 \times C \times D + D$$

EY=XW shows the CNN perform a linear transformation on the input features at each spatial position, identical across all position.

It is similar to the linear layers

wed in Transformer, where input

are transformed via weight matrices

