

q3

January 20, 2018

1 Outsize after convolution

We are given - Image size = Width, Height, Channels - No. of filters = N - filter size = F,F,Channels - Stride = S - padding = Z

Output Size = $N(\text{Width} - F + 2P)/S + 1, N(\text{Height} - F + 2P)/S + 1, \text{Channels}$

2 No. of Multiplications:

Multiplications in 1 Operation = $\frac{FF}{\text{Output_width} \times \text{Output_Height} \times \text{Channels}}$ Addition in 1 Operation = 1 Total Operations =

$\frac{\text{Total Multiplication} = (FF)}{\text{Output_width} \times \text{Output_Height} \times \text{Channels}}$ Total Addition = 1 * Out-

Reference

In []: