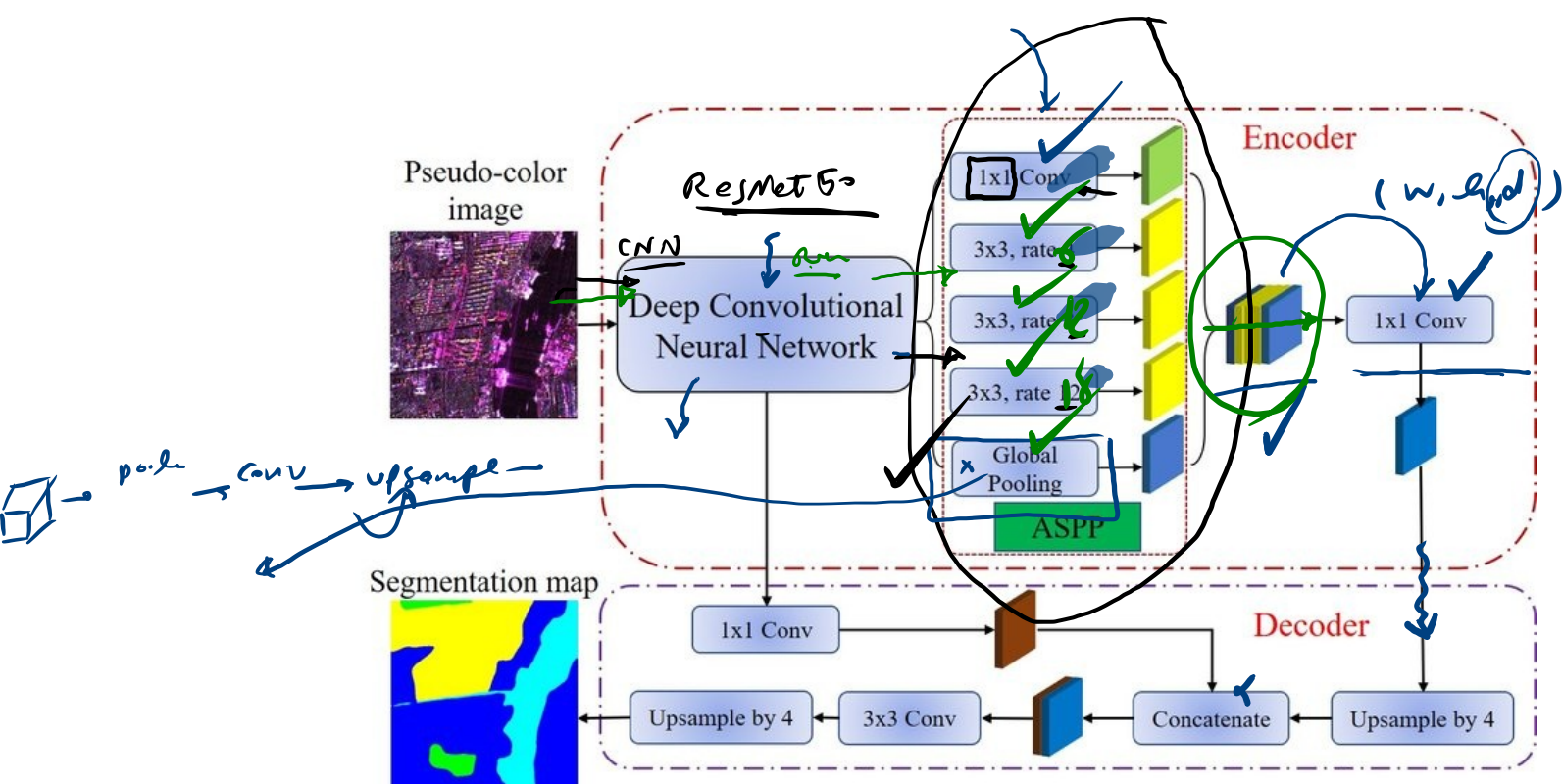Deepla 6v3

Coding

Pseudo-color image

ResNet50

CNN

Deep Convolutional Neural Network

Encoder

1x1 Conv

3x3, rate

3x3, rate

3x3, rate 12

Global Pooling

ASPP

(w, h, d)

1x1 Conv

pool → Conv → upsample

Segmentation map

1x1 Conv

Decoder

Upsample by 4 ← 3x3 Conv ← Concatenate ← Upsample by 4
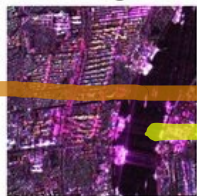
Pseudo-color image

Deep Convolutional Neural Network

Encoder

1x1 Conv

3x3, rate 4

3x3, rate 8

3x3, rate 12

Global Pooling

ASPP

1x1 Conv

Segmentation map

1x1 Conv

Decoder

Upsample by 4

3x3 Conv

Concatenate

Upsample by 4

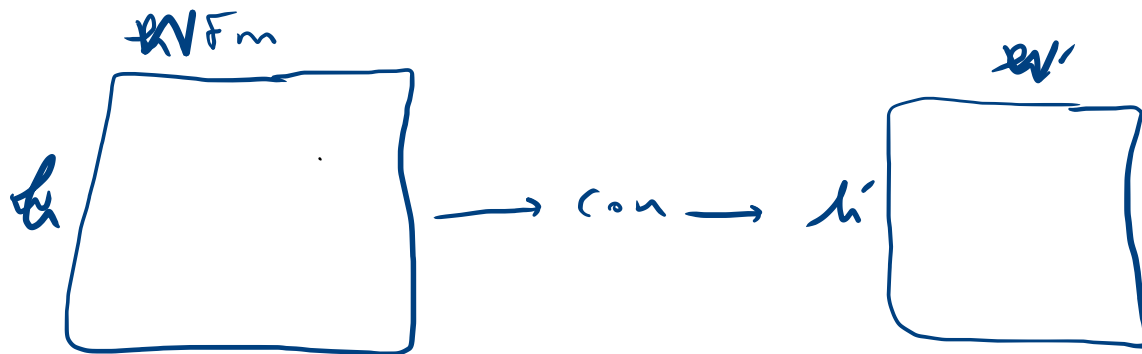Shoes

أشوف العلبة

p head

Conv 2x1 , 20

ان p-b

ان p-a

clothe
___

body

2o categorries.

$\times N \, Fm$

fv

$\longrightarrow$ Con $\longrightarrow$ h'

$\times v'$

$$upsampling \left(\frac{\partial v}{w'} \, , \, \frac{h}{h'} \right)$$

2

2 | 1 | 2 |
| 3 | 4 |

upsample $(2,2)$

bilinear

1.5

1	1,25	1,25	2
2			3
3			4