· VGG (Visual Geometry Group) Very Deep Convolutional Networks For Large - Scale Image Recognition

ConvNet Configuration

input (224 × 224 RGB image

maxpool

maxpool conv3-256

16 weight

layers

conv3-64

conv3-64

conv3-128

conv3-128

conv3-256

conv3-256

conv1-256

conv3-512

conv3-512

conv1-512

conv3-512

conv3-512

conv1-512

FC-4096 FC-4096

FC-1000 soft-max

13 weight

conv3-64

conv3-64

conv3-128 conv3-128

conv3-256

conv3-512

conv3-512

conv3-512

conv3-512

A-LRN

11 weight

conv3-64

LRN

conv3-128

conv3-256

conv3-256

conv3-512

conv3-512

conv3-512

conv3-512

11 weight

layers

conv3-64

conv3-128

conv3-256

conv3-256

conv3-512

conv3-512

conv3-512

conv3-512

· 亮点. : 通过堆置多个3以的卷根核来替代大尺度卷根核(减少所需参数) ②论文中提到. 可以通过相叠的个3×3的卷积核替代 S×5的卷根核, FFI \$4 \$4 (Input channel = C> 堆霜 三个以的卷根核替代双的卷根核

Feature map: F=1 Conv3x3 (3): F= (1-1)x1+3=3 Conv 3x3 (1): F = (54)x1+3=7 3x3xCxC + 3x3xCxC + 3x3 xCxC = 2702

> 拥有相同的感受野 -般使用D

19 weight

conv3-64

conv3-64

conv3-128

conv3-256

conv3-256

conv3-256

conv3-512

conv3-512

conv3-512

conv3-512

conv3-512

conv3-512 conv3-512

16 weight

conv3-64

conv3-64

conv3-256

conv3-256

conv3-256

conv3-512

conv3-512

conv3-512

conv3-512

conv3-512

conv3-512

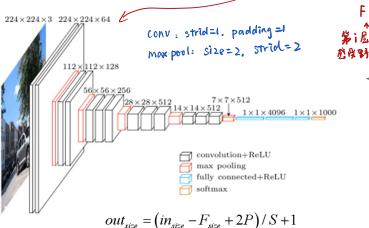
receptive field

决员某一层输出结果中一个入菜
所对应的输入层的区域大小。

く輸出 feature map 上的一个单元

\dashv	1712
	对应输入总上区域的大小>
	新山 2xx 1 Max Pod 1 Size: 2x2 Stride: 2
	uxuxl Convl
_	Strick = 2 $9 \times 9 \times 1$ Outsue = linsue -Fsize +2P)/S +1
	Outsue = [17] 11

kernal size



Feature map: F=1

Pooll: F= (1-1) × 2+2=2

CONVI: F= (2-1) x2+3=5