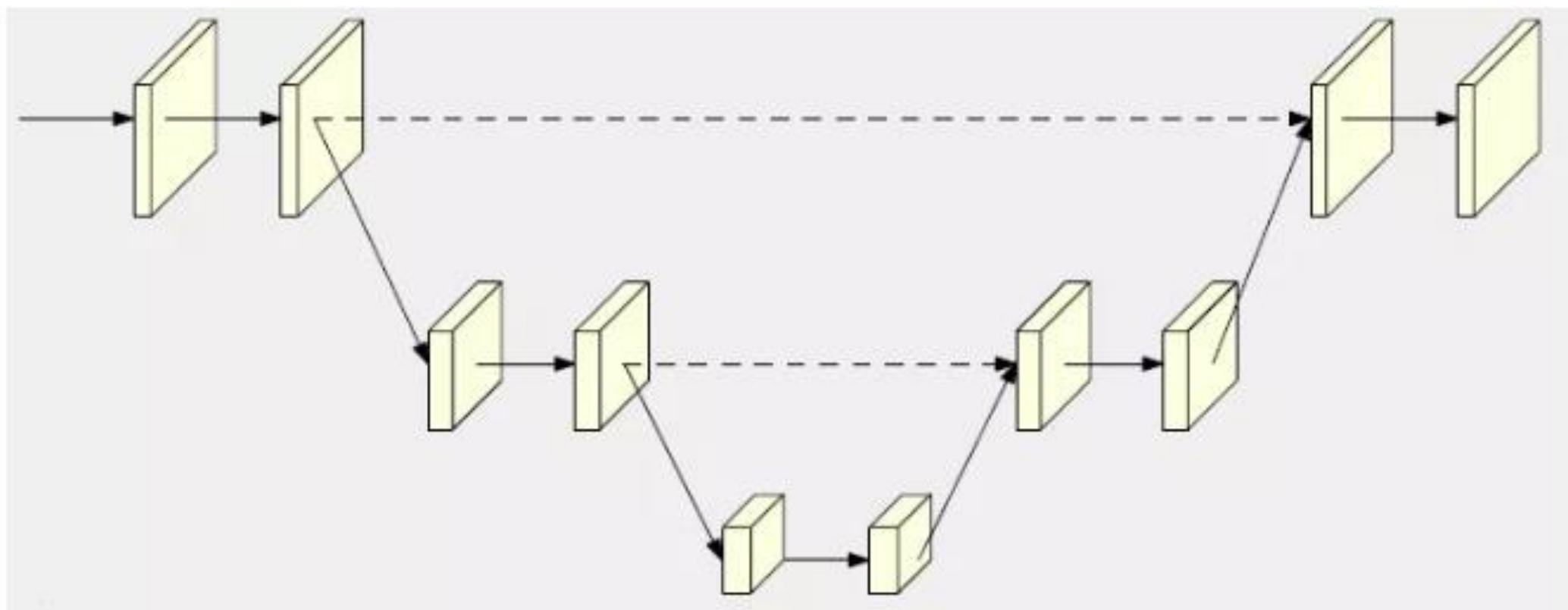


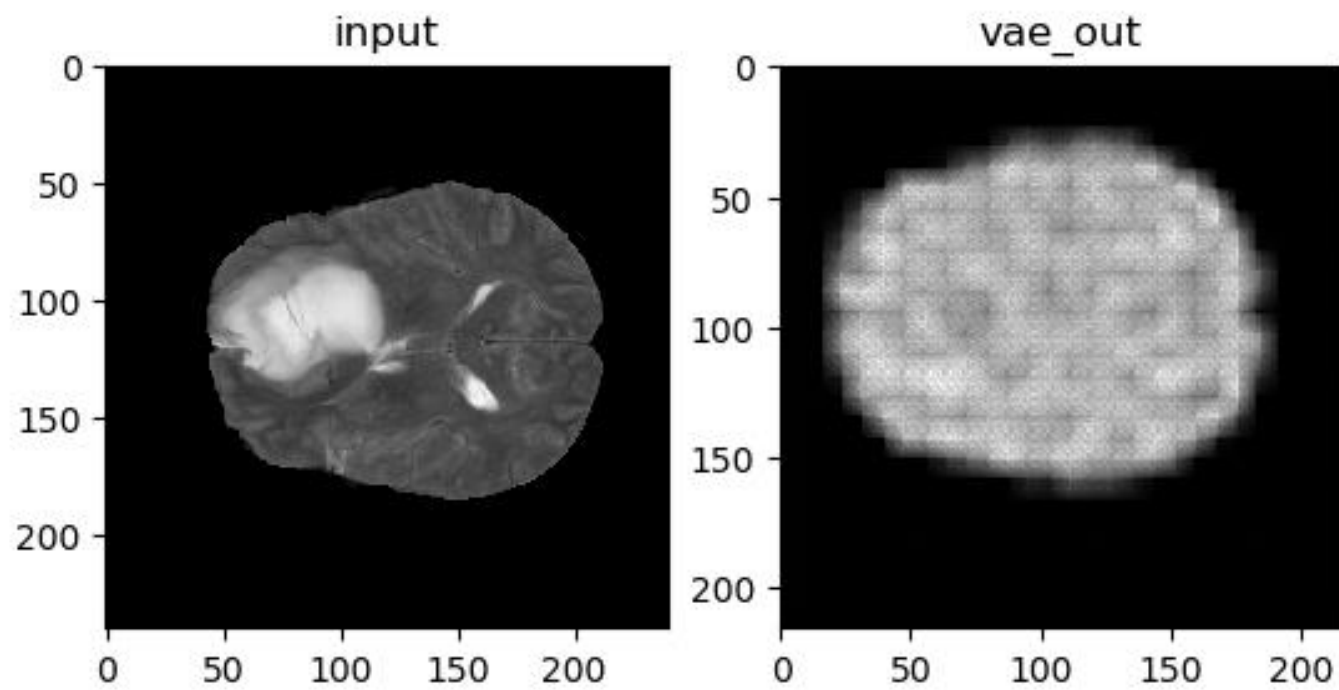
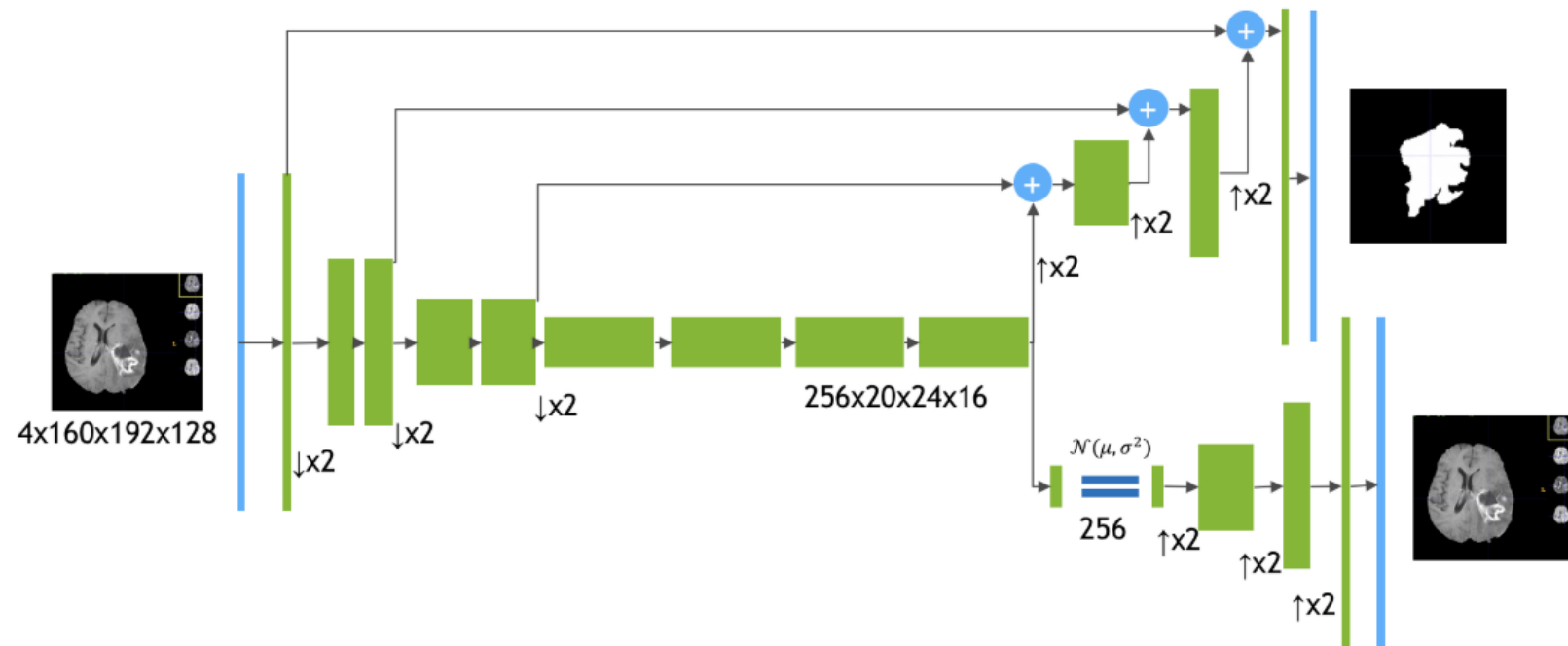
High-Resolution Representations for Labeling Pixels and Regions

MSRA

CVPR2019



1. 原本的高分辨率表征
2. 低分辨率表征通过上采样得到的高分辨率表征



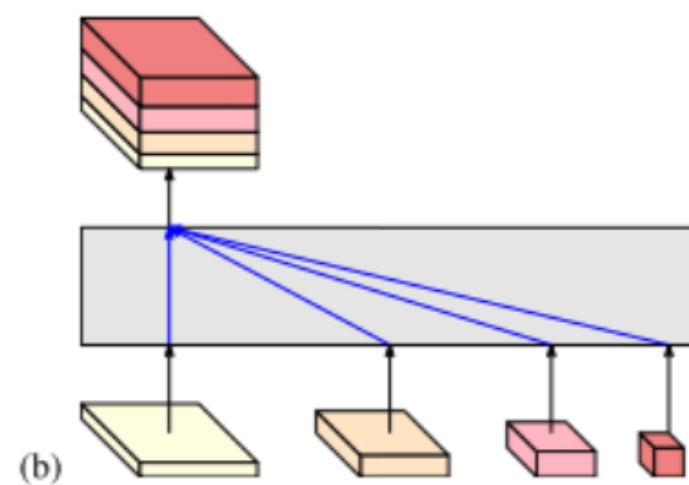
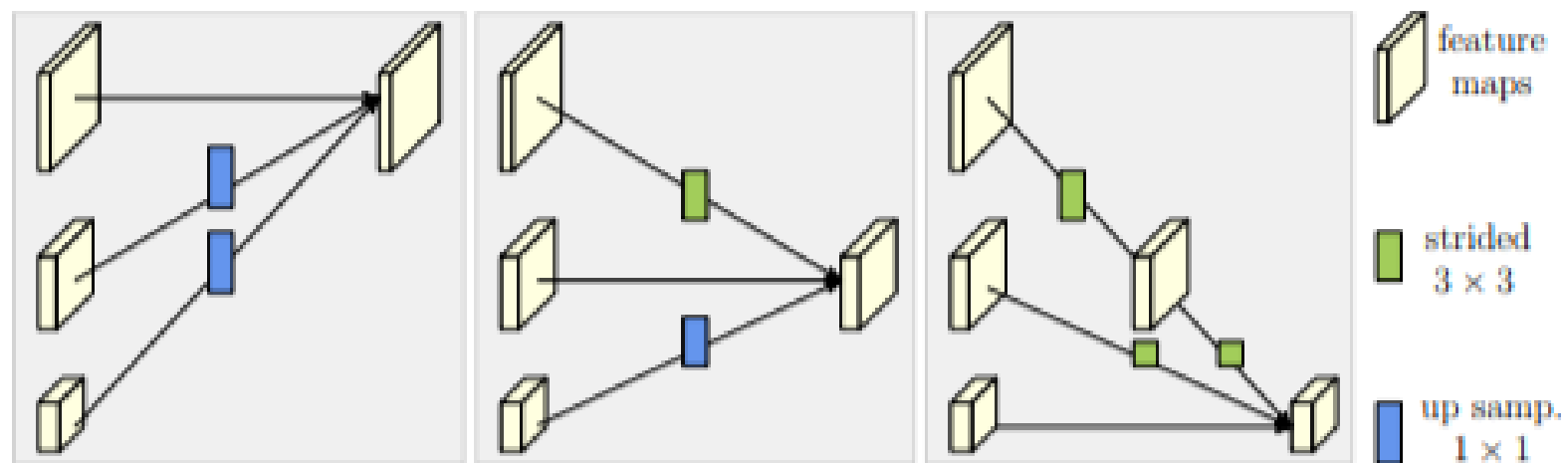
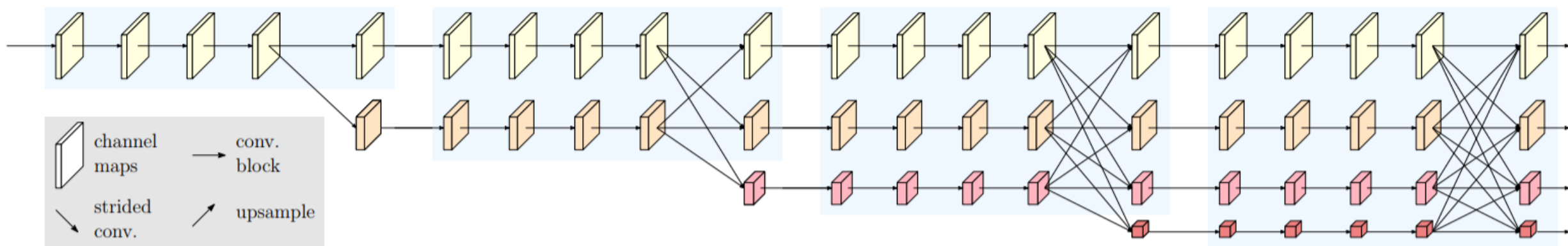


Table 2. Semantic segmentation results on Cityscapes test.

	backbone	mIoU	iloU cla.	IoU cat.	iloU cat.
<i>Model learned on the train set</i>					
PSPNet [126]	Dilated-ResNet-101	78.4	56.7	90.6	78.6
PSANet [127]	Dilated-ResNet-101	78.6	-	-	-
PAN [54]	Dilated-ResNet-101	78.6	-	-	-
AAF [45]	Dilated-ResNet-101	79.1	-	-	-
Our approach	HRNetV2-W48	80.4	59.2	91.5	80.8
<i>Model learned on the train+valid set</i>					
GridNet [30]	-	69.5	44.1	87.9	71.1
LRR-4x [33]	-	69.7	48.0	88.2	74.7
DeepLab [13]	Dilated-ResNet-101	70.4	42.6	86.4	67.7
LC [55]	-	71.1	-	-	-
Piecewise [61]	VGG-16	71.6	51.7	87.3	74.1
FRRN [78]	-	71.8	45.5	88.9	75.1
RefineNet [60]	ResNet-101	73.6	47.2	87.9	70.6
PEARL [43]	Dilated-ResNet-101	75.4	51.6	89.2	75.1
DSSPN [59]	Dilated-ResNet-101	76.6	56.2	89.6	77.8
LKM [76]	ResNet-152	76.9	-	-	-
DUC-HDC [99]	-	77.6	53.6	90.1	75.2
SAC [120]	Dilated-ResNet-101	78.1	-	-	-
DepthSeg [47]	Dilated-ResNet-101	78.2	-	-	-
ResNet38 [103]	WResNet-38	78.4	59.1	90.9	78.1
BiSeNet [113]	ResNet-101	78.9	-	-	-
DFN [114]	ResNet-101	79.3	-	-	-
PSANet [127]	Dilated-ResNet-101	80.1	-	-	-
PADNet [108]	Dilated-ResNet-101	80.3	58.8	90.8	78.5
DenseASPP [126]	WDenseNet-161	80.6	59.1	90.9	78.1
Our approach	HRNetV2-W48	81.6	61.8	92.1	82.2