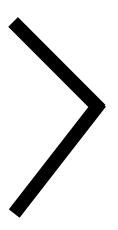
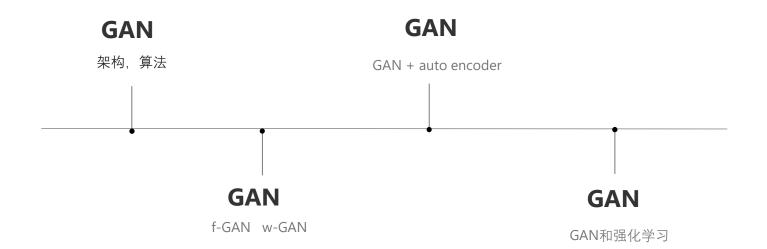


每周总结









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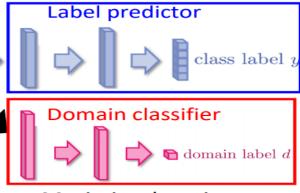
模型结构

Maximize label classification accuracy + minimize domain classification accuracy



Not only cheat the domain classifier, but satisfying label classifier at the same time

Maximize label classification accuracy



Maximize domain classification accuracy

数据集: 有标签的训练集和无标签的目标集













```
source_data = source_data.cuda()
source_label = source_label.cuda()
target_data = target_data.cuda()
mixed_data = torch.cat([source_data, target_data], dim=0)
domain label = torch.zeros([source_data.shape[0] + target_data.shape[0], 1]).cuda()
domain_label[:source_data.shape[0]] = 1
#训练domain classifier
feature = feature extractor(mixed data)
domain logits = domain classifier(feature.detach())#detach防止它backfforward时有记录
loss = domain criterion(domain logits, domain label)
running D loss+= loss.item()
loss.backward()
optimizer D.step()
#训练feature extractor和label predictor
class_logits = label_predictor(feature[:source_data.shape[0]])
domain logits = domain classifier(feature)
#目的是label的loss越小越好(分类准确率提高),domain的loss越大越好(2个训练集都在一个domain上了)
loss = class_criterion(class_logits, source_label) - lamb * domain_criterion(domain_logits, domain_label)
running F loss+= loss.item()
loss.backward()
optimizer F. step()
optimizer C.step()
optimizer D. zero grad()
optimizer_F.zero_grad()
optimizer_C.zero_grad()
```

步骤一:

将训练集和目标集和在一起训练, 训练集标1,目标集标0用于步骤

步骤二:

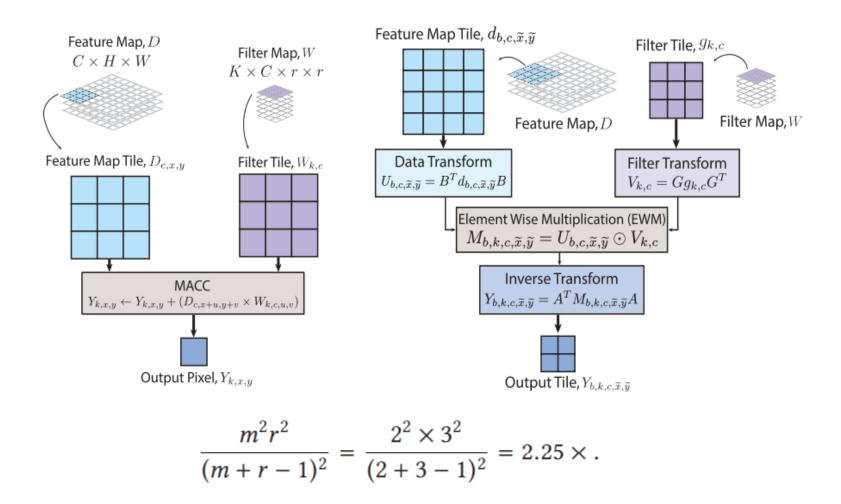
训练分类器,尽可能将训练集和目标集分离。

步骤三:

训练主网络。

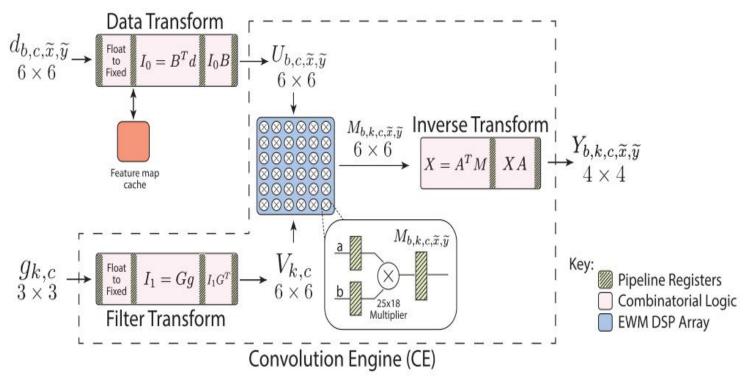
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FFConv: An FPGA-based Accelerator for Fast Convolution Layers in Convolutional Neural Networks



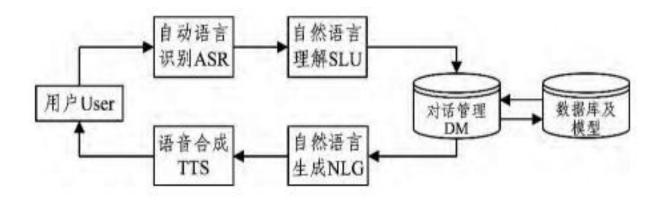
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F(4x4,3x3):卷积核大小为3x3,输出特征矩阵大小为4x4则输入矩阵为6x6(4+3-1=6)



$$Y_{b,k,c,\widetilde{x},\widetilde{y}} = A^T[(B^T d_{b,c,\widetilde{x},\widetilde{y}} B) \odot (G g_{k,c} G^T)] A,$$





基于有限状态机 基于框架(填槽法) 基于实例 基于规划 基于贝叶斯网络

0 0 0 0 0

基于强化学习: MDP, POMDP



下周计划

- 1.学习强化学习相关视频 深度强化学习,Q-learning,A3C等
- 2.完成GAN课后作业
- 3.继续阅读论文