Title

Abstract

1 Introduction

- First.
- Second,

2 Related Work

In this section, we briefly review ...

3 Proposed PRNN Model

In this section, we introduce our proposed model **Model name**. We first present the notation and the problem definition, then detail the proposed model throughly. Finally we demonstrate the

3.1 Problem Definition

3.2 Our Proposed Model

4 Experiments

We test our model on ... datasets and compare our approach with Besides, we study how different factors influence the performance with several ablation studies.

4.1 Datasets and tasks

- PASCAL VOC 2007/2012
- ImageNet
- Microsoft COCO
- ILSVRC

4.2 Protocols

What's protocol? Is it some data detail, such as store space, dimension and properties?

• TODO

4.3 Metrics

In this section, we will introduce some metrics used in forementioned detection datasets and tasks.

- mean Average Precision(mAP)
- recall@K
- FP, TP, RoC and AuC
- Intersection-over=Union (IoU) overlap
- Parameterizations of something
- FLOPS One multiplication followed by one addition.

4.4 Hyper-parameter

Training setting will be detailed in this section.

- **Initialization** The XXXNet can be trained end-to-end by backpropagation and *stochastic gradient descent(SGD)*. Draw weight from zero-mean *Gaussian distribution* with standard deviation 0.01.
- **Batching, sampling and Pruning** The sampled positive and negative samples have a ratio of up to 1:1.
- Optimizer/Solver We use a *weight decay* of 0.01 and a *learning rate* of 0.001. We use *momentum* for the first 60w data.
- Implementation platform Our implementation uses Caffe/ TensorFlow etc. [C]

4.5 Method Comparison

The methods in comparation and their settings are listed as follows:

• benchmark1 is a well know method for ...

Results Results of all methods are illustrated in Tables [R], respectively, from which we can see that performance

4.6 Ablation Studies

The core idea of XXXNet lies in Aspect A, Aspect B and Aspect C, referenced in Sections [R] and [R]. In this subsection, we evaluate them respectively.

Aspect A

Aspect B

Aspect C

5 Conclusions

References