Fully Convolutional Networks for Semantic Segmentation

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Abstract

1 Introduction

2 Method

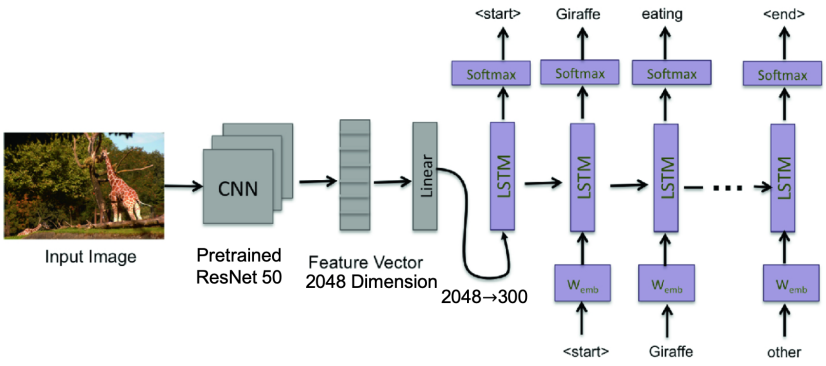

Figure 1: Model Framework [1]

3 Experiments

4 Individual Contribution

Nan Wei

I implement transfer learning with DeepLabv3 and do experiments on basic CNN and DeepLabv3. I also write the report.

Renjie Shao

I implement U-Net architecture and do experiments on U-Net. I also help implement IoU and visualization of segmentation and write some parts of the report.

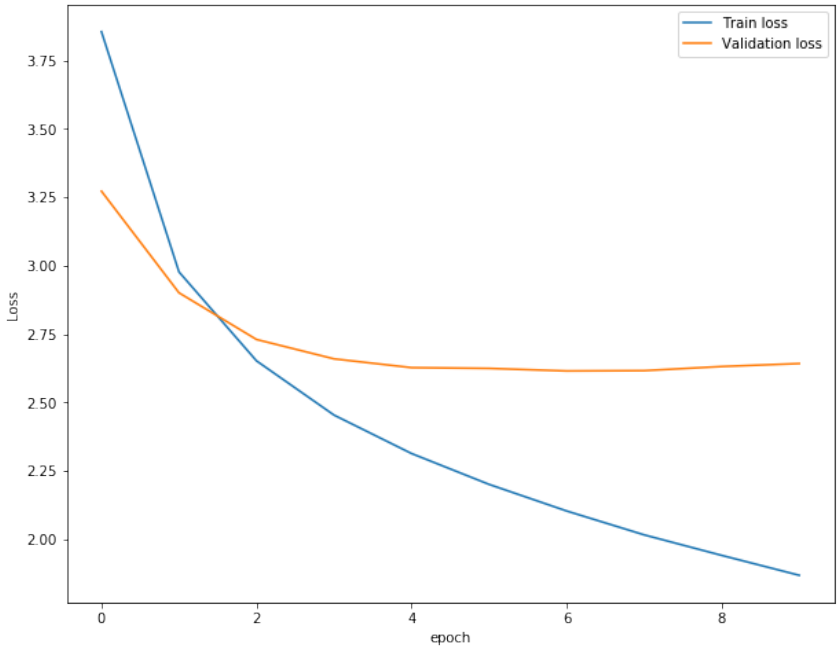

Figure 2: Training and validation loss of vanilla RNN

Hongyi Ling

I write the code of basic fcn and metrics. I also build different experimental CNN architectures and test these neural networks. In addition, I write these parts of the report.

References

[1] Anurag Tripathi, Siddharth Srivastava, and Ravi Kothari. Deep neural network based image captioning. In Anirban Mondal, Himanshu Gupta, Jaideep Srivastava, P. Krishna Reddy, and D.V.L.N. Somayajulu, editors, *Big Data Analytics*, pages 335–347, Cham, 2018. Springer International Publishing.