



# ECNUBeamerTemplate

——Modified by WeiYang

WeiYang

[weiyang@godweiyang.com](mailto:weiyang@godweiyang.com)

[www.godweiyang.com](http://www.godweiyang.com)

East China Normal University  
Department of Computer Science and Technology

2017.11.03



# Outline

Outline

Introduction

Photo

Conclusion

References





# Backgrounds

- 11111111111111
- 22222222222222
- 33333333333333
- 44444444444444



# My Photo



Figure: hahahaha...



# Emmm...

## Sequence Tagging Loss

$$\mathcal{L}_p = - \sum_{i=1}^S \sum_{j=1}^N p_{i,j} \log(\hat{p}_{i,j})$$

## Language Classifier Loss

$$\mathcal{L}_a = - \sum_{i=1}^S l_i \log(\hat{l}_i)$$

## Bidirectional Language Model Loss

$$\mathcal{L}_l = - \sum_{i=1}^S \sum_{j=1}^N \log(P(w_{j+1}|f_j)) + \log(P(w_{j-1}|b_j))$$



# References



Xuezhe Ma and Eduard Hovy. (2016).

## **End-to-end Sequence Labeling via Bi-directional LSTM-CNNs-CRF.**

In Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics, pages 1064–1074, Berlin, Germany, August 7-12, 2016.



Marek Rei. (2017).

## **Semi-supervised Multitask Learning for Sequence Labeling.**

In Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics, pages 2121–2130, Vancouver, Canada, July 30 - August 4, 2017.