

改进数据预处理问题

```
Training X shape: (1616, 256, 204)
Training Y shape: (1616, 3)
Test X shape: (583, 256, 204)
Test Y shape: (583, 3)
Build model ...
-----input_data OK-----
-----masks OK-----
-----lstm OK-----
-----inter OK-----
-----inter1 OK-----
-----lstm2 OK-----
-----inter2 OK-----
-----output OK-----
Compiling ...
```

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 256, 204)	0
masking_1 (Masking)	(None, 256, 204)	0
bidirectional_1 (Bidirection	(None, 256, 600)	1212000
dropout_1 (Dropout)	(None, 256, 600)	0
time_distributed_1 (TimeDist	(None, 256, 500)	300500
bidirectional_2 (Bidirection	(None, 64)	136448
dropout_2 (Dropout)	(None, 64)	0
dense_2 (Dense)	(None, 3)	195

但是准确率仍然没有提高：

```
Testing ...
 35/583 [>.....] - ETA: 21s
 70/583 [==>.....] - ETA: 19s
105/583 [====>.....] - ETA: 17s
140/583 [=====>.....] - ETA: 16s
175/583 [=====>.....] - ETA: 15s
210/583 [=====>.....] - ETA: 14s
245/583 [=====>.....] - ETA: 13s
280/583 [=====>.....] - ETA: 12s
315/583 [=====>.....] - ETA: 11s
350/583 [=====>.....] - ETA: 10s
385/583 [=====>.....] - ETA: 9s
420/583 [=====>.....] - ETA: 7s
455/583 [=====>.....] - ETA: 5s
490/583 [=====>.....] - ETA: 4s
525/583 [=====>...] - ETA: 2s
560/583 [=====>...] - ETA: 1s
583/583 [=====] - 25s 43ms/step
Test loss: 1.1187393489464683
Test accuracy: 0.3499142452435469
```

论文 introduction 部分已完成。

更新：

偶然间测试了五分类，发现已经比 state of the art 提高了 17%~84%，找到了改进方法。