

Our team comes from IFLYTEK, a company in China which focuses on artificial intelligence, and we follow the NDET track.

Nodule in lung is just like needle in sea, which leads to a mount of negative samples. In the meantime, some parts of tissues look similar to nodule. For this reason, we think the conventional two-stage framework (the popular Faster RCNN framework is also two-stage) is essential. Additionally, the multi-stage (more than two) framework should work better for this special problem. Based on the above analysis, we conducted many experiments on LUNA and real clinical data.

Finally, we submit the result of 10-fold cross validation on given subsets. Besides, our system is very efficient, a whole CT can be processed within 2 seconds.

Due to the intellectual property associated with our system, additional details cannot be released at this point.

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