

## Submission to LOLA11 Challenge

A DenseNet-FCN [1] based method is used for lung segmentation. The model is trained using in-house clinical routine data collected from pneumonia patients. References 1.

I try different loss function inside DenseNet-FCN model. Here, boundary loss[2] has been used.

Besides, I also try different threshold to output predicted result.

[1] Jégou, Simon, et al. "The one hundred layers tiramisu: Fully convolutional densenets for semantic segmentation." Proceedings of the IEEE conference on computer vision and pattern recognition workshops. 2017.

[2] Kervadec, Hoel, et al. "Boundary loss for highly unbalanced segmentation." *arXiv preprint arXiv:1812.07032* (2018).