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Different from tradition two stages nodule detection systems that first do nodule detection and then reduce the false positives, our system is a single stage method so that can be trained end to end. Our model is based on 3D Region Proposal Network (3D RPN). When training, we use 3D patches with size of $128*128*128$ as network inputs, and minimize a combination of classification loss and bbox regression loss (details of original 2D RPN can be found in <https://arxiv.org/abs/1506.01497>). In this submission, we train two different models with different settings, and ensemble the results by Non-Maximum Suppression (NMS).

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

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