

False Positive Reduction for Lung Nodule Detection

Our model is based on 3D Convolutional Neural Networks (CNN). The first convolution kernel learns in a similar way to a 3D convolution kernel by using all the data on the transverse plane as channels. To improve performance, we have proposed novel pyramid method.

We extract 3D voxel data and use 1mm shift and transverse plane rotation for training data augmentation. We evaluation our model in 5-fold cross-validation.

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

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