

WUU Net Nodule Detection

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We are a startup working on nodule and tumor detection from CT scans.

Our algorithm involves image preprocessing using morphological transformations. The preprocessed images are sent to a 3d inception-v3 architecture based deep convolutional neural network (DCNN) with recurrent connections. We further apply a custom pooling layer which is a variant of log-sum exponent.

The algorithm identifies false positives which we remedied by data augmentation. The algorithm has less sensitivity for ≤ 5 mm nodules which we are planning to improve in future.

Further details of our algorithm can be found in CVPR-2017 paper