

PN-STAGE CLASSIFICATION WITH DEEP LEARNING

Huangjing Lin^{†,§} *Hao Chen*^{†,§} *Qi Dou*^{†,§} *Liansheng Wang*[‡] *Pheng-Ann Heng*[†]

[†] Insight Medical Technology, China

[§] Department of Computer Science and Engineering, The Chinese University of Hong Kong

[‡] Department of Computer Science, Xiamen University, China

1. DIFFERENCE FROM THE 1ST SUBMISSION

This submission is based on our 1st submission. However, we made following significant differences to further investigate the efficacy of proposed methods.

Re-submission 1

In this submission, we made a difference in the training strategy by separating the training data into two subsets for ScanNet and Random Forest Classifier (RFC) respectively, instead of two architectures sharing the one training data set together.

In addition, 10-dimension PCA features extracted from original images around the largest prediction area are added for RFC as well. Together with the previous features, we have 125-dimension features in total for RFC training and prediction.