Dense Block and U-net

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Abstract

This document briefly describes techniques we used in automatic segmentation of the prostate in transversal T2 MRI for the PROMISE12 challenge. Our network is based on U-net[1], which is a classical encoder-decoder net in medical image application. We replace the convolution layer in U-net with a dense block.

1. Network architecture

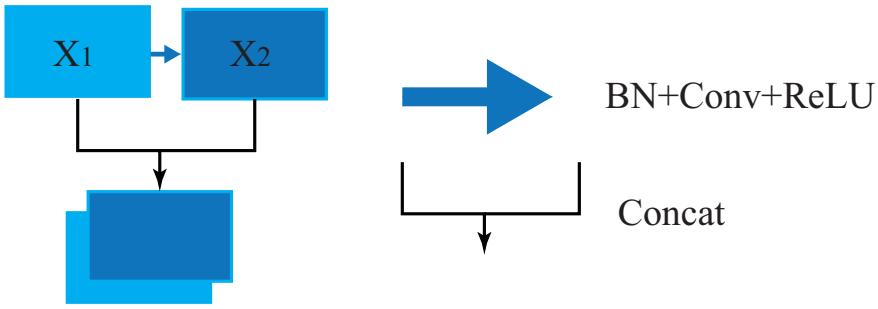

Figure 1: Dense Block.

References

[1] O. Ronneberger, P. Fischer, T. Brox, U-net: Convolutional networks for biomedical image segmentation, in: International Conference on Medical image computing and computer-assisted intervention, Springer, 2015, pp. 234–241.