

A Revised VoxResNet Model for Medical Image Segmentation

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In this paper a modified voxResNet model is proposed for MRI image segmentation. The convolution layers for extraction features at different scales are replaced with a concatenate layer and a convolution layer as shown in the following figures. Instead of adding the features from different scales equally, the revised model could automatically adjust the feature weights via self-learning. The paper is still under preparation.

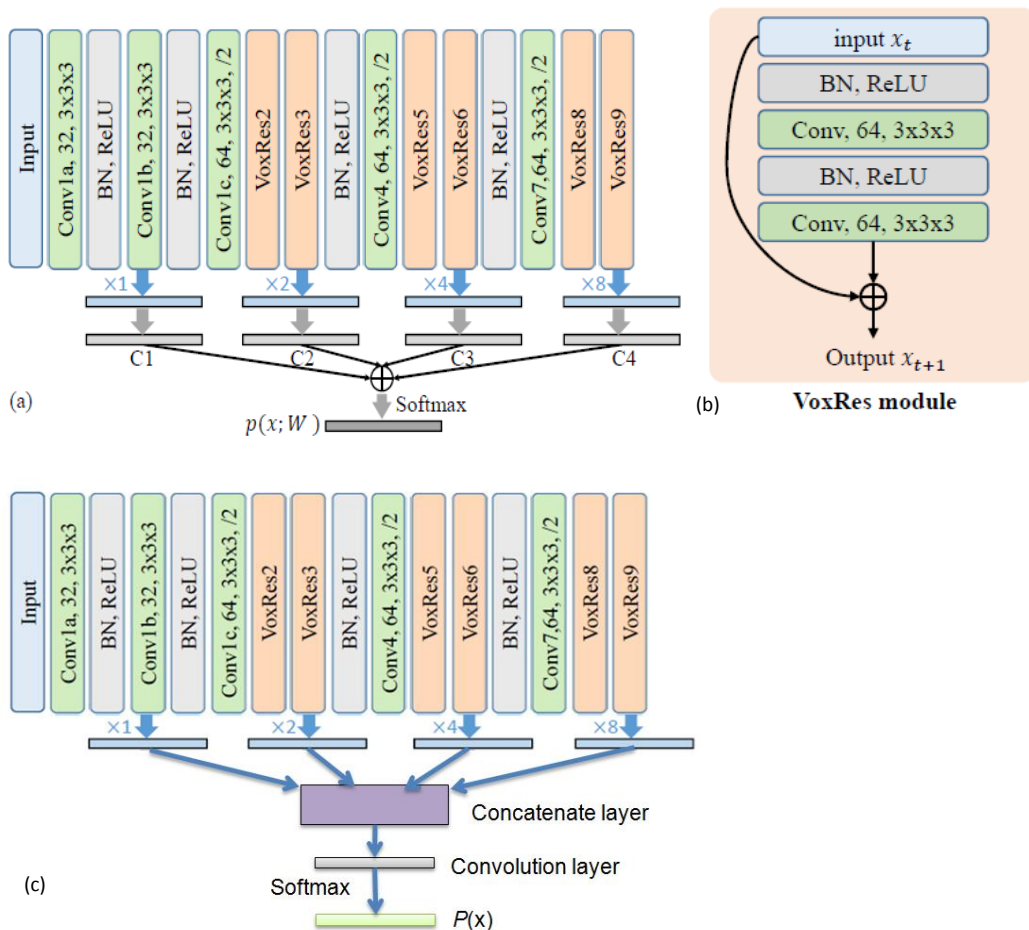


Figure 1. The original VoxResNet and its revised one. (a) the original VoxResNet; (b) the VoxRes module; (c) the revised VoxResNet.

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References

[1] Chen, Hao, et al. "VoxResNet: Deep Voxelwise Residual Networks for Volumetric Brain Segmentation." arXiv preprint arXiv:1608.05895 (2016).