PROMISE12 submission

We use HighRes3DNet (*Li, W., Wang, G., Fidon, L., Ourselin, S., Cardoso, M. J., & Vercauteren, T. (2017, June). On the Compactness, Efficiency, and Representation of 3D Convolutional Networks: Brain Parcellation as a Pretext Task. In International Conference on Information Processing in Medical Imaging*), which is a high-resolution and compact convolutional neural network architecture for the segmentation of structures in volumetric images. It uses elements of modern convolutional networks, such as dilated convolutions and residual connections.

The network structure is as shown in the paper cited above, though the preprocessing, hyperparameter selection and postprocessing are tuned for the task of T2-weighted prostate MRI segmentation.