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Training Medical Images Using UNet

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Abstract

While converting an image into a vector, we already learned the feature mapping of the image so why not use the same mapping to convert it again to image. This is the recipe behind UNet. Use the same feature maps that are used for contraction to expand a vector to a segmented image. This would preserve the structural integrity of the image which would reduce distortion enormously. In this presentation, we will apply UNet on MRI images and we will discuss future approaches that give better segmentation.

Key Words : CNN, Cycle GAN, Data augmentation, Segmentation, UNet.

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