Improved Unet

Improved unet is an improvised form of the unet. The network follows a similar architecture to unet. It starts with a context aggregation pathway that encodes increasingly abstract representations of the input as we progress deeper into the network, followed by a localization pathway that recombines these representations with shallower features to precisely localize the structures of interest. We refer to the vertical depth (the depth in the U shape) as level, with higher levels being lower spatial resolution, but higher dimensional feature representations.