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Method:

We expand VNet module to a two-stage network, called ExNet. The first stage of proposed network learns to predict four extreme points(top-, left, right-, bottom-most) and one center point of liver while the second stage learns to segment liver. The first stage is an encoder-decoder architecture as same as VNet. The second stage only contains decoder parts in order to reduce the computation. The dataset is used in a split way so that we can get more accurate results among z axis. The fusion between two stages is removed.