Aerial Semantic Segmentation using Deep Convolution Neural Network

Dat Tran, Thinh Bui
University of Engineering and Technology, VNU

We transfer the Fully Connected Neural Network[1] with pretrained NASNet large model for encoder to learn the semantic segmentation end-to-end. Specifically, we implemented version fcn8s in this paper. We only used 3 color channel image (RGB) for training. Each tiles is cutted to 1000 random 224 x 244 image , we use 80 percent of dataset for training and the other for validation. This time we train with 80 epochs.

Reference :

[1] Jonathan Long, Evan Shelhamer, Trevor Darrell: Fully Convolutional Networks for Semantic Segmentation, CVPR 2015