

Method Description for the Vaihingen 2D Semantic Labeling Contest

Wenli Tang

School of Remote Sensing and Information Engineering, Wuhan University

In this work, we use ResNet101 as our baseline model. To classify small objects such as cars, we employed atrous convolution for dense feature extraction and field-of-view enlargement, which is inspired by DeepLab.

For training, we only use the IRRG images of Vaihingen offered by the organizer, no any other data.

Reference:

Chen L C, Papandreou G, Kokkinos I, et al. DeepLab: Semantic Image Segmentation with Deep Convolutional Nets, Atrous Convolution, and Fully Connected CRFs.[J]. IEEE Transactions on Pattern Analysis & Machine Intelligence, 2016, PP(99):1-1.

Long J, Shelhamer E, Darrell T. Fully convolutional networks for semantic segmentation[C]// Computer Vision and Pattern Recognition. IEEE, 2015:3431-3440.