

Method description for Vaihingen Aerial Image Semantic Labeling

Koki Takahashi¹, Satoshi Iizuka¹, Edgar Simo-Serra¹, and
Hiroshi Ishikawa¹

¹Waseda University

We use an encoder-decoder type CNN with recursive middle layer connections for semantic segmentation. These models are trained with 12 images and 4 images for validation.

- REDCNN1
 - Trained from scratch.
 - The network has 21 convolutional layers.
- REDCNN2
 - Encoder pre-trained on ImageNet
 - The network has 21 convolutional layers.
- REDCNN3
 - VGG16 as the encoder
 - The network has 27 convolutional layers.
- REDCNN4
 - VGG19 as the encoder
 - The network has 30 convolutional layers.
- REDCNN5
 - VGG16 as the encoder

- The network has 24 convolutional layers.
- REDCNN6
 - VGG19 as the encoder
 - The network has 26 convolutional layers.