

Method Description for Vaihingen: 2D Labelling challenge

Guanzhou Chen, Xiaodong Zhang

State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China.

We trained our own end-to-end multiscale-shortcut-unit-based FCNs on the ISPRS Vaihingen dataset.

Some training details:

Training dataset	1, 3, 5, 7, 11, 13, 15, 17, 21, 23, 26, 28, 30
Validation dataset	32, 34, 37
Batch size	16
Training epochs	30
Shuffle training data	yes
Optimizer	adadelata
Data used	Only IRRG, no DSM and nDSM
Data augmentation	rotate 90° random times horizontally and vertically shift -5px~5px zoom 1~1.2 times horizontally and vertically flip randomly
CRF-based post processing	No

CVEO Team
Wuhan University