

Method Description for Vaihingen: 2D Labelling challenge

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We trained our own end-to-end SDFCN V2 model on the ISPRS Vaihingen dataset.

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	adadelta
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
Merging policy	Mask Weighted Policy with rotation

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