Training

Ground truth
green pixels
coordinates

RDI

Ground truth
red pixels
coordinates

Preprocessing the iVAT's RDI:
- Scale all pixel intensities to [0, 1]
- Pad the RDI with 4 pixel deep rows and columns of 1s on all 4 sides to generate feature vectors using a 9*9 feature window for boundary pixels

Stage 1

Generate F2 feature vectors for all diagonal pixels in RDI(as shown in Fig. 3). Label the green pixels as class 1 and others as 0. Apply majority vote sampling.

Train the model using feature vectors and class labels

Validation and comparison of models

Generate F2 feature vectors(as shown in Fig. 3) for all pixels vertically below and in the same column as ground truth green pixels. Label the red pixels as class 1 and others as class 0. Apply majority vote sampling.

Train the model using feature vectors and class labels

Validation and comparison of models

Stage 2