Original HSI

Averaging-based method

Dimension reduced HSI

ACTVSP

Initial structures (band 1)

KPCA

Final structures (band 1)

Pixel-wise SVM classifier

Probability maps

Pixel-wise SVM classifier

Initial binary probability maps

EPF

Final soft probability maps

Fusion

Fused probability maps

Classification map

Step 1: Dimension reduction

Step 2: Complementary structure extraction

Step 3: Probability fusion