Sentinel 1A SAR hi-res classification

Original normalized radar cross section in HV polarization
Segmented image with 3 first principal components shown as Red, Green and Blue channels. PCs are calculated from values of the Haralik texture features estimated within each segment.
● Comparison of SAR classification algorithms clearly shows that adding the segmentation step significantly improves spatial resolution and classification accuracy.

● The new algorithm for Sentinel 1A SAR data classification is developed in Python as an open source package and is ready for tuning and application for various tasks.