Title of the Contribution: First investigations on detection of stationary vehicles in airborne decimeter resolution SAR data by supervised learning

Abstract: In this work we investigate the automatic detection of stationary vehicles in SAR images by supervised learning algorithms. This implies the description of the vehicles by a set of representative features. We combine several classes of features including subspace projection based on clustering mechanisms (NMF, PCA), statistical features (image moments), spectral features (gabor wavelets) as well as boundary (shape analysis) and region descriptors (HOG). We further use two different learning algorithms: Support Vector Machines (SVM) and Random Forests.

Congress / Book Title: Proceedings of IEEE International Geoscience and Remote Sensing Symposium

Year: 2012

Reviewed: no

Language: en

Occurrences: - Einrichtungen > Fakultäten > Ingenieurfakultät Bau Geo Umwelt > Lehrstühle > Leonhard Obermeyer Center > Fachgebiet Photogrammetrie und
entries: