Object segmentation of recordings on the water

Dependable Systems - Dirk Nowotka

Project Description

Recently, as part of a master thesis, a system with two cameras and a Raspberry Pi was developed, which is attached to the mast of a sailboat and intelligently processes the images. So far, this processing only involves a segmentation of water and land, which does not work properly yet. So, on the other hand the existing segmentation should be fixed in this thesis. On the other hand this thesis should increase the functional range such that more objects (boats, bollards, jetties) can be segmented. An additional challenge is to reduce the runtime of the system such that the use as a real-time system becomes implementable.

Applicable For

Bachelorstudents
Masterstudents

Skillset

Programming
Machine Learning

Keywords

Computer Vision
Machine Learning
Semantic Segmentation

Contact

Karolina Ochs
@ kao@informatik.uni-kiel.de