Stitching of multiple recordings on the water

Dependable Systems - Dirk Nowotka

Project Description

Recently, as part of a final 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. The image processing is based on one image which is produced by merging both images from the two cameras (stitching). Until now the stitching of the images is still error-prone. So in this thesis new approaches for image stitching must be considered. One part of it is the theoretical conceptualization with all the necessary transformations and preprocessing steps of the images. The second part contains an implementation of the previously elaborated concepts. Lastly an evaluation of the regarded concepts is required.

Applicable For

Bachelorstudents
Masterstudents

Skillset

Image Processing
Programming

Keywords

Stitching
Image Processing
Computer Vision

Contact

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