

# Ship-Mounted Camera Stabilization.

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Siqura B.V. is located in Gouda and provides advanced video surveillance solutions. These solutions include IP cameras, video encoders, network video recorders, fiber equipment, video management and video-content analysis (VCA) software. Siqura currently provides a number of video-analysis algorithms for surveillance including perimeter intrusion detection, left-luggage detection and people counting.

Maritime detection for static off-shore structures is under development. We also want these algorithms to work on moving vessels. However, a vessel rotates and translates due to the waves and movement of the ship. To keep the cameras locked on to a target or area-of-interest, the cameras need to be stabilized.

## Goal

- Develop an image stabilization algorithm for networked cameras which minimizes the number of gyroscopes.

## Tasks

- Make a scale model to test and show your results,
- Add gyroscope(s) and accelerometers as additional sensors,
- Design an algorithm which fuses the estimated stabilization from the separate sensors.

## Your qualities or interests:

- Image processing and Computer Vision.

## Contact information

You are invited to send your CV to Anne van Vossen ([a.vanvossen@tkhsecurity.com](mailto:a.vanvossen@tkhsecurity.com)) and Julien Vijverberg ([j.vijverberg@tkhsecurity.com](mailto:j.vijverberg@tkhsecurity.com)).