Ship-Mounted Camera Stabilization.

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) and Julien Vijverberg (j.vijverberg@tkhsecurity.com).