

Improve Sun Sensor Calibration for Digital Sun Sensors

Master / (Bachelor)

Task Description

- Review previous calibration setup and data and identify (systematic) errors
- Develop method for setup calibration (e.g. sun simulator position measurement using precise measurement system before actual sun sensor calibration)
- Define and test sensor calibration process using motion simulator
- Evaluate calibration process and accuracy using uncertainty analysis

Preliminary Knowledge

- Experience/Knowledge with Uncertainty Analysis
- Matlab Programming for Calibration and Evaluation
- Digital camera models and Coordinate Frames

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