

Ingenieurspraxis

# Recording of Robotic Grasping Failures

The aim of this project is collecting data by robotic grasping experiments and creating a largescale labeled dataset. We will conduct experiments while attempting to grasp known or unknown objects autonomously. The complete pipeline includes:

- Estimating grasp poses via computer vision
- Robotic motion planning
- Executing the grasp physically
- Recording necessary data
- Organizing the recorded data into a well-structured dataset

Most of the data collection pipeline has been already developed, additions and modifications may be needed.

## Prerequisites

Useful background:

- Digital signal processing
- Computer vision
- Dataset handling

Requirements:

- Experience with Python and ROS
- Motivation to yield a good outcome

## Contact

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(Please provide your CV and transcript in your application)

## Advisors

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