

# Assignment 1: Goal Model

## Preparation

- Read the Line Follower Challenge specification
- Make yourself familiar with the Kobuki robot specification
- Check the KAOS Tutorial for more details and examples on KAOS

If you want to use a graphical tool for the model

- Install Objectiver tool from <http://www.objectiver.com/index.php?id=4>
- Register and apply for an evaluation license

## Assignment

Draft a KAOS goal model for the Line Follower assignment. Identify the top-level goal and elaborate it according to the specification of the Line Follower Challenge and the Kobuki robot.

In addition to the specification, assume that the robot moves on a table and as a safety measure, it must not fall down. Use the cliff sensors on the robot to detect the potentially unsafe situations.

Elaborate the goal to requirements and sketch operationalization of the requirements.

Sketch an object model.

Sketch an obstacle model.