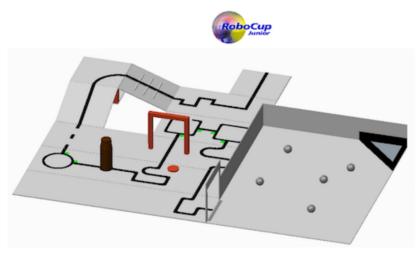
MOOC Autonomous Mobile Robots Week 5



(http://rcj.robocup.org/rescue.html)

Week 5 - Ball Picking Challenge

Part 1: Navigation

This challenge is inspired in the <u>Robocup Junior Rescue Competition (http://www.robocup2016.org</u> /en/leagues/robocupjunior/rescue/).

In the competition, the robot must navigate through the environment and find the *victims*, then transport the victim to a safe evacuation point where humans can take over.

In the first part of the challenge, the robot must follow the line in the floor and avoid the obstacles.

At the end of the line there is a rectangular room with walls, where second part of the challenge starts: the robot should transport as many balls as possible to an *evacuation point* in one of the corners of the room.

The aim of this week is to program the robot for the first part of the challenge: follow the line from the beginning to the destination point. To do so, you need to reuse the abilities learnt in weeks 1-3; please feel free to reuse the code of those notebooks and exercises.

• First part of the challenge (first challenge.ipynb)

Ball Picking Challenge

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In []: # and here starts your job, good luck!

