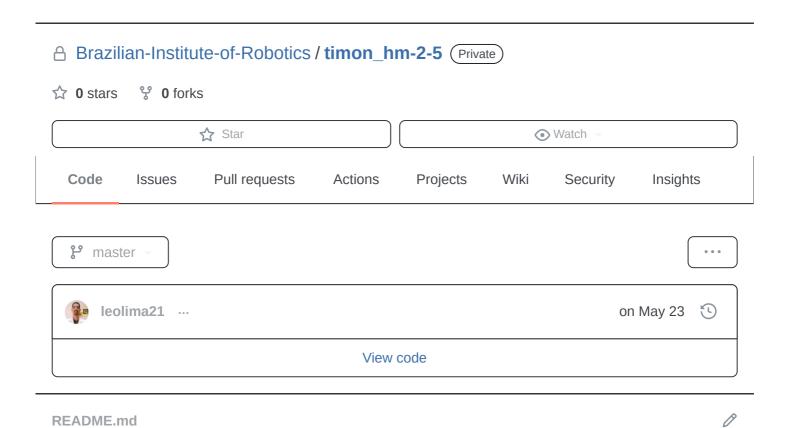


Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

Read the guide



BIR 2.5 CHALLENGE - Timon-HM Team

This package refers to challenge 2.5 proposed by the BIR (Brazilian Institute of Robotics). In this challenge, four DARwin-OP robots provided by Robotis was used to solve the missions.

The robots made two different missions:

1. Made a syncronized march during 2 meters.

Made relay race where every robot ran during 2 meters to change the baton to the next robot.

Requirements

Software

- Ubuntu 18.04 LTS
- ROS Melodic (OpenCV included)
- OpenCV



This original package was used to develop the Challenge-2.5 package:

ROBOTIS OP 2 ROS packages

Packages

To reproduce these results it's necessary install these packages below.

- DARwin-OP:
- \$ git clone https://github.com/HumaRobotics/darwin_gazebo.git
- Control packages:

\$ sudo apt-get install ros-melodic-ros-control ros-melodic-gazebo-ros-control ros-melodic-controller-manager ros-melodic-effort-controller ros-melodic-joy-* ros-melodic-joint-state-controller ros-melodic-joint-state-publisher

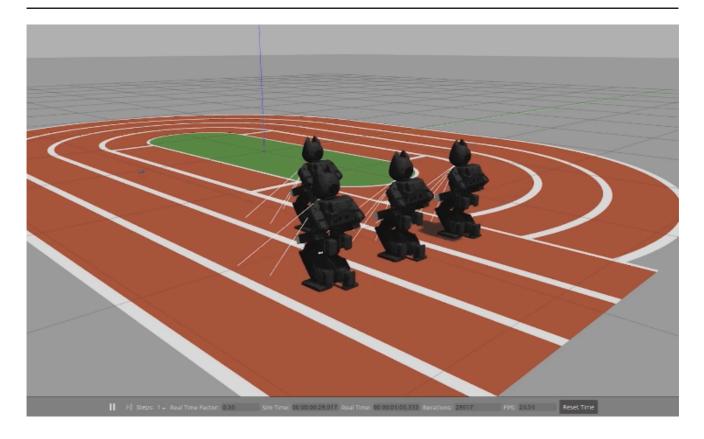
Hector gazebo packages:

\$ sudo apt-get install ros-melodic-hector-gazebo ros-melodic-hector-gazeboplugins

Mission 1: March



Demo



Launch Gazebo world:

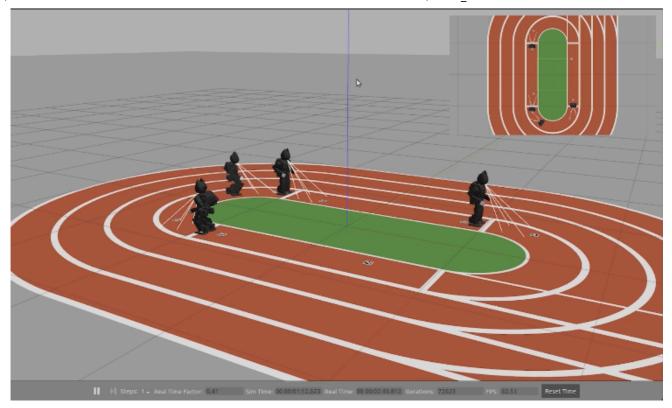
\$ roslaunch multi_robot main_march.launch

Execute the mission 1:*

\$ rosrun multi_robot march.py

Mission 2: Relay Race

Demo



Launch Gazebo world:

\$ roslaunch multi_robot main_race.launch

Execute mission 2:*

\$ rosrun multi_robot race.py

*Before executing the mission, don't forget to press play in Gazebo.

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Contributors 5











Languages

• C++ 44.0% • Python 38.7% • CMake 17.3%