Software Survey 2026

Team name

RoboErectus

Which division(s) are you applying for? If your used software differs between divisions, please fill out the survey once per division.

Large Size (height < 190 cm, weight < 80 kg)

Is your software fully or partially OpenSource? If so, where can it be found?

Yes, Booster Robotics, YOLO websites

Are you using any software developed by other teams? If so, list every component that you are reusing and the team that originally developed it.

No

Are you using any datasets in your research? If you are using your own datasets, are they public?

No

Please list the scientific publications your team has made since the last application to RoboCup (or if not applicable in the last 2 years).

NA

Are there any other contributions you would like to share with the RoboCup community?

Not At the moment

Which approach are you using to generate the robot walking motion?

Machine Learning (Using)

Which approach are you using to generate other motions of the robot (e.g. kicking, standing up)?

Machine Learning and static joint position

Do you have a kinematic or dynamic model of your robot? If so, how did you create it (e.g. measure physical robot, export from CAD model)?

Provided by Booster

What approaches are you using in your robot's visual perception?

Deep Learning

Are you planning with objects in Cartesian or image space? If you are using Cartesian space, how do you transform between the image space and cartesian space?

No

Do you have some form of active vision (i.e. moving the robots camera based on information known about the world)?

No

What approach are you using to localize your robot?

Monte Carlo Location

Is your team performing team communication? Which communication protocol are you using?

Custom Messages

What approach are you using for navigation? Are you avoiding obstacles?

Stop for avoid the obstacles and walk around

How is the behavior of your robots structured? (e.g. Behaviour Trees)

Behaviour Trees

Are you simulating your robot? If so, which simulator are you using and for what purpose do you use simulations?

Issac Sim

What operating system is running on your robot and which middleware are you using (for example Ubuntu 22.04 and ROS2 Galactic)?

Ubuntu 22.04 + ROS2 Galactic

Is there anything else you would like to share that did not fit any previous question?

NA