

Term Project

Due: Dec 24, 2021

ICN5406 Cool Robot Show

Intelligent autonomous mobile robot(AMR) are emerging for various service applications. Intelligent autonomous robots will serve in many public and domestic scenarios. It deserves our attention to develop useful behaviors of mobile robots. The purpose of this term project is to give a demonstration of one intelligent behavior of your ICN5406 robot.

Cool Robot Show:

Each team is required to give a 2-3min demonstration of your robot with a focused topic related to the ICN5406 by using the hockey robot platform. A team can be composed from two members of the class. Extra sensors are available from TA (see below).

Assignment:

1. Each team should submit a one-page proposal for the cool robot show demonstration. (Due 12/3)
2. Give a robot demonstration in Lab EE632 on Dec. 24
3. Each team should submit a report by Friday Jan. 7, 2022

Grading policy:

technology soundness: 50% 、completeness:30% 、PPT presentation(report): 20%

Important Dates:

12/3/2021: One-page Proposal (one page A4, including Title and demo description)

12/24/2021: Cool-Robot Show Demonstration (2-3 min demonstration + 5 min Q&A)

Additional Sensors Available:

Sensor Device	Available
Rpi Lidar	14
YD Lidar	2
RealSense SR300	1
Ultrasonic sensor	3
IMU	3
RPi Camera and holder	5