

Judges Choice

Effective December 07, 2022

Text in RED is new for 2023

Code: JC1
 Control: Autonomous, or Semi-Tethered.¹ see below
 Open to: Open to all!
 Max Robot Size: 0.89m wide (Must fit through a doorway)
 Weight limit: 22.5 Kg / Axle
 Size of Playing Field: n/a

Explanation: **Judges** Choice is a chance to show off your ability to solve a problem (real or imagined) by the use of a combination of mechanicals, electronics and software.

Rules: **Robots** entered into the Judges Choice competition MUST be able to repeatedly demonstrate a stated task independently. e.g. ...
Actively and safely avoid random obstacles &/or humans if navigating a programmed course.
Differentiate between different objects, then pick and place, demonstrating repeatability.
Identify between the front or back of a human and communicate only with the front.
Create a model² of an intensive hog raising barn, or hydroponics building that automatically controls pumps, lighting, heating/cooling, ventilation, etc., with appropriate alarms in case of systems failure.
Etc, etc, ...

All robots entered that utilize any form of artificial intelligence (AI) must employ the three rules of robotics.

- 1) Cause no harm to humans.
- 2) Obey all human commands unless it conflicts with rule 1.
- 3) Protect all human life.

Contestants will be required to have their robots on display for at least an hour during the day. After judging, contestants are to inform the master of ceremonies who will announce that you are available. **Contestants** should be willing to communicate to the viewing public about their robots during this period.

¹ Semi-Tethered - Human control will be allowed to start/stop the robot, or to change from one program or instruction set to another only.

²; Roughly scaled to be able to carry the layout into the event. Some items can be represented with labelled LED's where practical, except where heat needs to be monitored or if fluid levels identified and resulting actions taken.