

RoboCarts

The task of the robot is to be faster than its fellow robots in a course race.

1. Contest description

Group of robots starts for a race. Their task is to make several rounds on a track as fast as possible. The robots receive points based on their order at the finish line. Best robots in the qualifying phase will compete in the finales. Standard collisions with other robots or track walls are allowed, intentional damaging of the track or other robots is prohibited.

2. Robot

Robot is fully autonomous and must not be dangerous or excessively annoying.

Maximum size of the robot is 20(l)x10(w)x10(h) cm. On top side, a place for marking must be reserved (sticker 5x5 cm).

3. Racing circuit

Race ground is white. The track is bordered and contains inner walls creating a racing circuit (see picture). All walls are approx. 10 cm high and the robots are not allowed to cross them. Inner walls are red, outer walls are green. Black line (approx. 1.5-2 cm wide) marks the track roughly in its middle. The race runs anticlockwise.

4. Start and finish

Every robot starts from a pit assigned by the referee. Pit size is approx. 22(l)x12(w) cm. Before the race, participants place their robots one after one into the pits during maximum 30 sec each. Since then, no intervention is allowed. The referee starts the race by fully opening front side of the pits. All pits are opened simultaneously; height of the gate will be at least 12 cm.

The robot successfully passes the finish line if it fully crosses it. The race ends when all robots finish the ordered number of rounds or when the time exceeds specified time limit. It is recommended that robots stop after the end of the race (the participants will have to capture their robots on their own). All robots which finish the specified number of rounds will receive ranking points.

5. Power of officials and liability

If a robot or a participant violates the rules, the referee may disqualify them from the race. He may also disqualify the participant or the robot for further races.

No objections against the decisions of the referee or the organizers are allowed.

The organizers may change the rules without prior notice, e.g. based on number of participants, local conditions etc.

The participants are responsible for their robots and their safety and will be liable for all damages caused by them, their robots or their equipment.

The organizers will not be under any circumstances held liable or responsible for any accidents of the participants or any damages caused by the participants, their robots or their equipment.

