Rules line followers – JedoBot 2022

Category:

category	limit				track		
	weight	width	lenght	height	width	background color	line color
line follower	No limits	300 mm	300 mm	No limits	15 mm	white	black
line follower Lego							

Principle:

The robot must pass through a prescribed route.

Robot:

The robot must be completely autonomous.

A robot may not in any case exceed size limits.

Dimensional control is performed profile with internal dimensions odpovídalícím limit. Profile must touch their entirety cut perpendicular pads.

A robot may not discharge any substance not pollute the track.

In the category Lego is allowed to use only Lego parts, excluding batteries. Sensors are only allowed from one Lego Mindstorms set (RCX, NXT, EV3, home nebo education; Robot Inventor, SPIKE Prime, SPIKE Essential Set).

With one robot can compete with more teams, but with their own programs.

Competition:

The competition has two rounds. On each round robot has two attempts. Will be computed faster time in the round. The overall rankings will decide the sum of both times of both rounds.

Disqualification:

The robot may be disqualified from the competition, or from trying.

If he is disqualified from the competition, it looks at him as if he did not participate at all competitions. From competition to disqualify only a serious breach of the conditions of competition (eg. Fraud).

If disqualified from trying, he writes in his 1000 sec. From the attempt to disqualify the case when the robot not passes the predetermined path. Of pathway may yaw and then return. But it cannot go in the opposite direction.

Robot can be disqualified by a referee only.

Path:

The track is a black line width of 15 mm on a white background. It may contain a perpendicular intersection that passes straight.

The minimum bend radius is 50 mm. The minimum distance between two lines and lines from the edge of the track is 100 mm. The track can contain obstacle in the cube 150 mm.