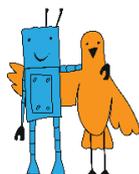


«LINE FOLLOWER» CONTEST RULES

Version 5.0 dated July 20, 2017.

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1. General provisions

1.1. Task description

The distance must be completed along the specified trajectory for a minimum amount of time.

1.2. Categories of the competitions

“Line follower” competitions are held in the following categories:

"Line follower for intermediates. Premier League”

"Line follower for intermediates. Educational kits”

"Narrow line follower. Premier League”

"Narrow line follower. Educational kits”

"Line follower for intermediates. Playback robots (BEAM)”

The organizers of the competitions may create an additional category for beginners (“Line Follower for Beginners”). The technical limits for the field and robots in this category meet the respective limits set for “Line Followers for Intermediates. Educational Kits”.

1.3. General restrictions

One robot cannot simultaneously (i.e. within one competition) participate in the "Premier League" and "Educational kits" categories of the same line.

One robot within the framework of one competition cannot participate in Line Follower for Beginners and any other category of Line Follower competitions described in this Regulation at the same time.

2. Specifications of the field and lines

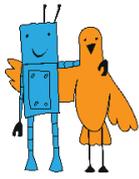
The field is a white flat surface marked with a black tape indicating the trajectory. There are the characteristics of the line for each categories of the competitions.

3. Requirements for the Robot

The robot must be absolutely autonomous. Ready robots that do not require building, such as Polulu 3pi, SumoBot by Parallax, Sumovor by Solarboticss etc. having ready algorithms for passing lines, are not allowed to participate in the competition.

The height of the robot is unlimited.

The additional requirements for the robots are specified in each categories.



The robot must not violate the established requirements after the start of the match, unless otherwise specified in the regulations of the relevant category of competition.

4. Contest procedure

Before the heats starts the robot is set at the start area of the field so that none of its parts extend over the limits of such area.

Robot of the competition participant starts and finishes on the same start position.

Each team has no more than 2 attempts in order to complete the distance. Their exact number to be determined by the jury on the competition date. The best time among the attempts counts.

In order to complete one attempt the robot is given the time according to the chosen category.

Heats time is counted from the moment of crossing the start line by the robot until the moment of crossing the finish line by the robot.

Robot crosses the line when its front part touches or crosses the line.

Time of attempts should be fixed with electronic gates or by referee with the stopwatch depending on the availability of the equipment. In any case fixed time shall be final.

The heats is stopped in the following cases:

- the robot has completed the distance;
- the heats time was over;
- the robot was disqualified from the heats.

It is allowed to participate two robots simultaneously on the field. Pair heats and the robot's track are drawn by lot.

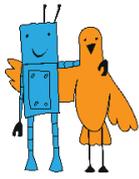
The robots are installed at the start lines in one direction. If one of the robot drives off the track during a trial and prevents another robot to continue moving, then the heats is repeated.

4.1. Conditions of disqualification

The robot may be disqualified if:

- the robot is not autonomous (the robot is controlled by the participant);
- the participant touched the robot or the polygon during the heats;
- the robot drove off the field (one of its parts extended over the limits of such area);
- the robot lost the line for more than 5 seconds;
- the robot when passing the distance repeatedly obstructs the opponent;
- the robot left the line and returned to the line at any next (not already passed) point of the route.

The robot is considered to have left the line, when no part of it is above the line. The robot length in this case is measured by the wheelbase.



РОБОФИНИСТ

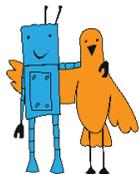
5. Scoring

In a situation where the robot is catching up with the opponent, the heats ends before the time expires, but on condition that the robot has driven at least 5 seconds.

In this case, the winner of the race is the team whose robot has caught up the the opponent.

The winner will be the team whose robot has spent the minimum time for covering a distance.

In the final races, each team is given one attempt, provided that the robots did not hinder each other.



6. Revision History

№	Doc. No.	Date	Note	Previous version	Update version
1	2	3	4	5	6
1.	4.1		Section 1 changed		
2.	4.1		Section 1.4 changed		
3.	4.1		Section 1.5 changed		
4.	4.2		Section 3 changed		
5.	4.3		Section 2 changed	Previous text	
6.	5.0		Entire text changed	On the base of version 4.3	
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