



Istanbul Technical University Robot Olympics 2018 Line Follower Junior Category Rules

Age Limit:

- Children between the ages of 6-14 can participate.

Definition of the Task:

- In this category, the robots attempt to complete the track without leaving the gray border lines on the track.

Success Criteria:

- Success in this category is to complete the track without filling the penalty upper limit.

Robot Specifications:

- 1) Robots must not exceed 25 cm in width, 35 cm in height and 20 cm in height.
- 2) There is no limit in weight.

Track Specifications:

- 3) The track is made of white colored marker.
- 4) The road that the robot should follow is composed of black lines on a white background.
- 5) There are gray border lines at the right and left 80 mm from the line on the track being followed.
- 6) It is forbidden to step on the track outside of the marked areas.

Competition:

- 7) Each robot competes in turn.
- 8) The incoming competitors put their robots behind the starting line.
- 9) Robots start the competition when they command the referee. When the start line is reached, the robot begins to run.
- 10) After passing through the starting line of the robot, it tries to reach the finish line without going out of the boundary lines.
- 11) The robot should not go beyond the boundary lines. If robot goes out, it makes a mistake and gets a penalty of leaving the pit.



12) Where the lines intersect, the robots must continue in the same direction.

13) "General Rules of the Categories" shall apply in this category together with all categories.

Puanlama:

14) $\text{Score} = \text{time} + \text{time} * 0.2 * (\text{number of exiting the track})$.

15) Robots have 3 mistakes. The robot, which makes four mistakes, is disqualified.

16) Robots with low score are in the top rank.