

RULES OF ROBOTIC TOURNAMENT

“ XII Robotic Arena ”

RoboSprint

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Section I

General

§ 1

1. This document regulates rules of the tournament in category “RoboSprint”.

Section II

Robot Specification

§ 2

1. Robots can't be pre-built, commercial construction.
2. Width and length of a robot cannot exceed the width of a track.
3. Height of robots is not limited.
4. Weight of robots is not limited.
5. Communication with robots during matches is forbidden.
6. Disabling robots remotely is an exception from the point above.
7. Robots cannot emit exhaust fumes.

§ 3

1. Robots must be fully autonomous.
2. Robots must be designed so that it can be run at the mark given by the judge.
3. Robot during a race must use its limbs in such manner, that ???
4. Limbs of a robot must be mechanically independent - e.g. legs cannot be attached to wheels.
5. Each leg of a robot must have at least 2 degrees of freedom.

6. Robot during a race cannot use any devices which purpose is to shorten robot's contact with the ground, such as wings, rotors, propellers, turbines, etc.
7. Robots functionality cannot be dependent on varying environment during tournament, such as lighting (from dusk to bright reflectors), smoke, loud music or laser effects. The show may be lit by regular lightbulbs, halogens, energy saving lightbulbs, fluorescent lamps, LEDs and other lightsources common in households. Organizers have no control over street lighting near windows of the building. During the show it will be forbidden to use camera flashes and other intense light.

Section III

Competition

§ 4

1. Competition will be conducted in two stages:
 - (a) Elimination phase,
 - (b) Finals.
2. In elimination phase, each robot has a right to unlimited number of the rides.
3. The referee decide about the finish of the elimination phase.
4. The order of attempts in the elimination phase is determined by the referee.
5. 6 best constructions from the elimination phase are promoted.
6. Gear sequence in the final phase is inversely proportional to the place occupied in the elimination phase.
7. In the final phase, each robot has three attempts. As a result of referee's decision, there can be only final stage. Therefore:
 - (a) Each robot that successfully went through the registration process can take part in the final stage.
 - (b) Matches in finals will be held based on the schedule given by the referee.
8. Each phase results will be announced after the finish of given phase.

§ 5

1. Robots are placed in front of the finishing line so that they don't touch the line.
2. The time is being stopped when a whole robot crosses the finishing line.
3. Maximal time of a race is 3 minutes. After exceeding this time the race is considered unfinished.
4. If the robot falls, it is given 10 seconds to stand up. After exceeding this time the trial is considered unfinished.

Section IV

Winner Selection Rules

§ 6

1. Robots are started on signal from the referee.
2. A false start happens when robot exceeds starting line before the referee gives a signal.
3. First false start restarts the race.
4. Second false start causes the race to be considered unfinished.
5. Race in which robot leaves the track is considered unfinished.

§ 7

1. Time of a race is counted from the moment of passing the starting line to the moment of passing the finishing line.
2. Time is measured by the referee with a stopwatch.