



World Robot Summit 2020

World Robot Challenge

Junior Category

General Rules and Regulations

Revision Date: June 7, 2021

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Introduction to World Robot Summit Junior Category

Junior Category

The World Robot Summit – World Robot Challenge Junior Category offers competitions for students up to 19 years of age. It aims to promote STEM Computing learning as well as the understanding of human-robot co-existence (Co-Bot) among participating students. In addition, it prepares students to participate in robotics and A.I. research and development in the future.

There are two challenges in the Junior category – **Junior Home Robot Challenge** and **Junior School Robot Challenge**. Junior Home Robot Challenge is a task-oriented competition in which a team of students builds and programs a robot that completes a set of domestic tasks. Junior School Robot Challenge is an open-task competition in which a team of students programs and/or develops software to control a social robot to be used in a school environment. Each team develops a creative idea for using a social robot in school or at home, and realizes their idea using a social robot. The social robot used in Junior School Robot Challenge is a standard platform, which is to be used by all teams.

Junior Category General Rules

1. Team Size

World Robot Summit (WRS) strongly believes working in teams to accomplish the same goal with the team members provides important learning opportunities for young engineers/robotists. Because of this reason, Junior Category teams should have more than one member to participate in its competitions. Maximum team size is set to be 6 members for World Robot Summit 2020.

A team member(s) and/or robot(s) cannot be shared between teams.

2. Team Member

The maximum age of Junior team members is 19-year-old as of the last day of a competition.

3. Team Mentor

The minimum age of Junior team mentor is 20-year-old as of the first day of a competition.

4. Robots

Robots must be built and/or programmed solely by team members. No adults and/or non-team members should be heavily involved in such activities.

5. Code of Conduct

5.1. WRS's Spirit

- 5.1.1. All participants, including team members and mentors, will recognize and respect the WRS's mission. Participants should work toward the realization of "Robotics for Happiness" in the future.
- 5.1.2. What is most important is what you gained, found and learned through your experience while participating in the competition. The competition will provide you with a lifelong learning experience to meet and collaborate with teams and their mentors from all over the world.

5.2. Fair Play

- 5.2.1. All teams are expected obey the RuleBook.
- 5.2.2. All teams are expected to demonstrate a sportsmanship.
- 5.2.3. Any one deliberately interfere with or damage robots or/and settings including a stage/arena will be disqualified or denied access to the competition venue.
- 5.2.4. All teams are expected to help each other when someone is in need.
- 5.2.5. All teams are expected to collaborate with other teams whenever possible.

5.3. Sharing (Dissemination of Knowledge)

- 5.3.1. Teams are expected to share their technological, engineering, programming achievements with other teams after the competition through their website, digital presentations and workshops.
- 5.3.2. Teams' achievements may be published on the WRS Junior Challenge website following the competition.

5.4. Expectation - Team

- 5.4.1. All teams are expected to respect each other.
- 5.4.2. All teams are expected to participate in ALL meetings and workshops organized before and during the competition period. Missing those may end up missing important information and opportunities for learning.

5.5. Expectation - Mentors and Other Adults

- 5.5.1. Only the team members are allowed in the team set-up area. Mentors and other adults should not stay inside of the set-up area during the competition.
- 5.5.2. If a team encounters technical problems with their laptop, other devices and/or their robots that are beyond their ability to fix, the teams are expected to seek advice or help from the WRS technicians and organizers. They will try their best to provide necessary support. The team mentor may request permission from the organizers to enter the set-up area for the sole purpose of advising the team to repair or fix the problem. However, the mentor is expected to leave the area immediately after the problem is solved.
- 5.5.3. A mentor found in the student work area may lose his/her access to the competition site and the team will be penalized.
- 5.5.4. A mentor found to be involved with mending, building or programming the robot(s) and/or directing students' work will lose his/her access to the competition site. Her/his team will also be penalized by a point deduction or disqualification.

5.6. Expectation - WRS Organizers and Volunteers

- 5.6.1. The WRS organizers and volunteers will act fairly within the spirit of the educational event.
- 5.6.2. The WRS organizers and judges shall not be involved in the assessment and judging of the participating team(s) that they have a close relationship with.

Teams should refer to corresponding Challenge Rules for the Challenge specific rules of the year.

School Robot Challenge

https://worldrobotsummit.org/wrs2020/challenge/download/Rules/ReDetailedRules_School_EN.pdf

Home Robot Challenge

https://worldrobotsummit.org/wrs2020/challenge/download/Rules/ReDetailedRules_Home_EN.pdf