



ONLINE

2020

International Youth Robot Competition



# 인터넷 유스 로봇 경진대회

**일 시** 2020. 9. 5(SAT) ~ 9. 6(SUN)

**장 소** 대전 / 대전컨벤션센터 (Daejeon, DCC)

**카테고리**

1. **Robot Creation** (global competition)
2. **A.I. IoT Coding Mission** (only for Korean participants)
3. **Autonomous Humanoid Mission**  
(only for Korean participants)



주 최



주 관



# Invitation

We would like to invite you to **2020 IYRC Korea** from Sep.5 to Sep. 6 in Daejeon, Korea, which will be held **online** due to coronavirus pandemic.

The competition was minimized this time but our passion will be maximized.

<Summary>

- Category: Robot Creation

-Theme : Robot, help us!

-League: Junior(8-12), Senior(12-18)

-Registration Deadline: August 31. (got to <https://IYRC.org> to register)

-How to participate : Build your robot, and make a video and send the link by email ([seyu7374@gmail.com](mailto:seyu7374@gmail.com))

-Prize: Grand, Gold, Silver and more will be shipped right after the competition

## **R&R for Robot Creation**

### 1.0 Objective

Robot Creation is aimed to provide a platform for students to share their creativity, innovative thoughts and programming skills. They are required to work together as a team to design a robot based on the given theme. Besides, they will also need to present and demonstrate their robot creation well to convince and impress the judges by video.

### 2.0 Robot Dimensions and Weight

The size and weight of the robot is not limited.

### 3.0 Restrictions on Robot design

3.1 Only MRT series of products are to be used to build the robot. There is no limitation to the amount of blocks used to build the robot. You are allowed to mix the parts from the above

mentioned systems for the robots.

3.2 Robots shall not damage any part of the field or obstacles deliberately.

3.3 Robots shall include LSM ((Line Core M Servo motor) or MRT products (including all MRT new products: MRTCoconut, MRT-duino, Blacksmith-Coding Board, etc.) and there is no limitation on number of sensors and motors used.

3.4 Robots allowed to move or make motion autonomously or use remote control.

3.5 Robots can use and add other materials such as camera, sensors, paper, rings, clips, chopsticks, paper cups, and 3D Printing materials etc.

3.6 VAC (Volt of Alternating Current) power supplies are strictly prohibited for safety reasons.

3.7 Robots shall not cause any danger to the arena & surroundings in anyway whatsoever.

3.8 Robots will need to protect their sensors if necessary from any outside interference.

3.9 Robots RC receivers will need to be protected from any outside interference.

#### 4.0 Game Rules

##### 4.1 Method of a Match

4.1.1 Participants shall build a robot in advance.

4.1.2 Participants make a video showing their robot working/moving (max. 5 min.)

4.1.3. The video shall include 1) Robot Name 2) Purpose 3) Team Member introduction and task allocation 4) Introduction of the project 5) Specification and features 6) how to program (if needed) 7) functionality of robot

4.1.4 Robots shall be uploaded at IYRC.org

4.2 Theme : Help us! Robot!

### 4.3 Robot Registration in Advance

4.3.1 Participants should submit the requirements IN ADVANCE to the official email (seyu7374@gmail.com)

4.3.2 The video must be in English, but English script shall be okay.

### 4.4 Deciding the Winner

4.4.1 The judges will check if the team meets the requirements or not, and evaluate teams' works online.

4.4.2 Score shall consist of :

- Relevance to theme (10 score) : online evaluation
- Creativity & Uniqueness (30 score) : online evaluation
- Robot Functionality (30 score) : online evaluation
- Team work (10 score) : online evaluation
- Presentation skill (20 score) : online evaluation

### 5.0 Awards:

5.1 ALL the qualified team will be awarded.

5.2 The teachers of the winning team will be awarded separately.

Judges will be 5-9 experts from various nations recommended by National Partners of IYRA