

World Robot Summit

2020

Robotics for Happiness

The goal of the World Robot Summit (WRS) is to work toward creating a society where humans and robots live and work side by side in harmony.

The WRS features two international events: the World Robot Challenge (a competition of robots & robotics) and the World Robot Expo (an exhibition of the latest robots & robotics).

By simultaneously convening these two events, the WRS will bring together the world's innovators and advanced robots/robotics technology in order to accelerate both research and development as well as social implementation of robots in our society.

2020 AICHI / FUKUSHIMA **in JAPAN**

AICHI SKY EXPO

FUKUSHIMA ROBOT TEST FIELD

Venue

 AICHI
SKY EXPO

Oct. 8 Thu · Oct. 11 Sun

FUKUSHIMA
ROBOT
TEST FIELD

Aug. 20 Thu · Aug. 22 Sat

Hosts



Website <https://worldrobotsummit.org/en/>



World Robot Challenge

We carry out some challenge at WRC in 4 categories



Industrial Robotics CATEGORY

Assembly Challenge

The purpose of this category is to accelerate the development of future manufacturing systems through a competition where the participating teams compete on developing the assembly systems aiming at realizing a system that can respond to variously changing orders (ultimately, even an order for one-off product) by reconfiguring the system in agile and lean manners.



Service Robotics CATEGORY

Partner Robot Challenge (Real Space)

The concept of the Partner Robot Challenge is to realize the living environment where people and robots are able to collaborate. The participants will compete in the concept of tidy up the room. We hope to accelerate open innovation by using the standard platform robot. (TOYOTA HSR)

Future Convenience Store Challenge

This is the world first competition aiming to realize the future convenience stores, where the burden of employee works are reduced and the services customers will enjoy.



Future Convenience Store Challenge



Disaster Robotics CATEGORY

Plant Disaster Prevention Challenge

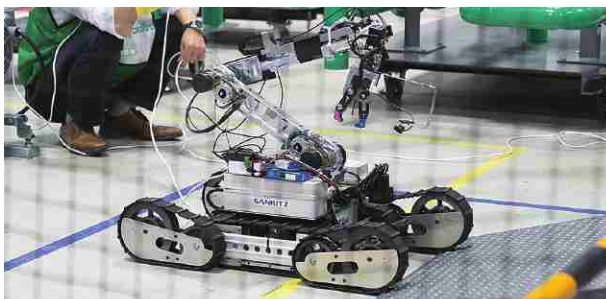
Inspecting or maintaining infrastructures based on set standards (e.g. opening/closing valves etc.)

Tunnel Disaster Response and Recovery Challenge

The world's first competition to deal with tunnel disasters. Collect information and provide emergency response in case of a tunnel disaster.

Standard Disaster Robotics Challenge

Assessing standard performance levels (e.g. mobility, sensing, information collection, wireless communication, remote control on-site deployment, durability, etc.) required in disaster prevention and response.



Plant Disaster Prevention Challenge



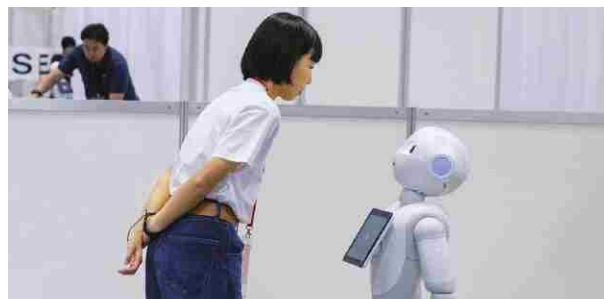
Junior CATEGORY

School Robot Challenge

It challenges teams to develop a creative and innovative idea for the use of humanoid robot at their school, and realize the idea by programming Pepper, a Standard Platform humanoid robot. The main objective is to develop programs that can complete the given tasks (Skills Challenge) and create a robotic demonstration to show their creative and innovative idea of using Pepper at school.

Home Robot Challenge (Mini Size and Real Size League)

It challenges teams to develop a creative and innovative idea for the use of humanoid robot at home, and realize the idea by programming a robot they design and construct. The main objective is to develop a robot that can complete the given tasks (Skills Challenge) and create a robotic demonstration to show their creative and innovative idea of using their original robot.



School Robot Challenge

World Robot Expo

The WRE is an exhibition that provides examples of robot introduction being promoted by companies, organizations and local government under the theme of "Robotics for Happiness". The exhibition featuring a future society is also planned.



World Robot Summit (WRS) Secretariat

For further inquiry on the event and sponsorship, please contact below.

Website <https://worldrobotsummit.org/en/>

E-mail info@worldrobotsummit.org

Facebook <https://www.facebook.com/worldrobotsummit/>

YouTube <https://www.youtube.com/watch?v=wdool12cgp0>