



RoboCup 2017
Nagoya Japan



RoboCup 2017

Nagoya Japan

GUIDE FOR VISITORS

July 27 to 29 9:00 - 18:00

July 30 9:00 - 16:00

Portmesse Nagoya / Takeda Teva Ocean Arena

The RoboCup is an international competition based on autonomous mobile robots, which strives for the merger and development of robotics and artificial intelligence.

Setting its target as building a team of humanoid robots that will beat the World Cup soccer champion team by 2050, RoboCup aims to facilitate progress in research on robotics, artificial intelligence and other related areas, and it disseminate the results as fundamental technologies for a wide variety of fields.

Since the first RoboCup was held in Nagoya in 1997, the event has taken place in different countries around the world. Currently, as the world's largest competition involving autonomous mobile robots, the event attracts approximately 3,000 researchers and students from about 40 countries across the world. In Japan, the event was held in Fukuoka in 2002 and in Osaka in 2005, attracting more than 100,000 visitors each time.

Overview

RoboCup2017 Nagoya Japan

Venues	Nagoya International Exhibition Hall (Portmesse Nagoya) Takeda Teva Ocean Arena
Organized by	The RoboCup Federation The RoboCup Japanese National Committee The RoboCupJunior Japan Association The RoboCup 2017 Nagoya Local Organizing Committee
Cosponsored by	Chunichi Shimbun Co., Ltd
Endorsed by	Ministry of Education, Culture, Sports, Science and Technology Ministry of Economy, Trade and Industry Japan Tourism Agency Japan Robot Association The Japan Electrical Manufacturers' Association Information Processing Society of Japan Information Processing Society of Japan Tokai Branch The Japanese Society for Artificial Intelligence The Robotics Society of Japan Japan Football Association

Leagues of RoboCup

RoboCupSoccer

RoboCupSoccer is a soccer game played by robots, which commenced to promote the research and development of robot and AI technologies through friendly competition. While some other robots are radio- or remote-controlled, in this game, the robots have to think for themselves and autonomously make decisions to act. RoboCupSoccer has eight leagues according to the robot size and form: Small Size, Middle Size, Humanoid (KidSize/TeenSize/AdultSize), Standard Platform, and Simulation (3D/2D). The Robot Soccer Leagues have established rules for each game, covering different field sizes and numbers of robots. Some of these leagues of multiple autonomous robots playing soccer demonstrate strategic plays based on the mapping of the surrounding robots. The rules are amended at appropriate times due, for instance, to technological advance.

Small Size League



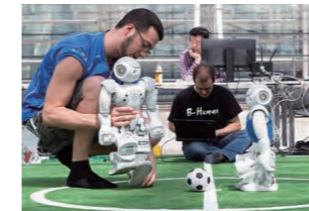
Middle Size League



Humanoid League



Standard Platform League



Simulation League



RoboCup@Home

Participants in the RoboCup@Home League compete in the degree to which their robots can perform operations that assist human life in domestic environments such as a living room or a kitchen, using an everyday robot utilization scenario. Important technologies in the competition include robot arm control and manipulation, such as for opening and closing doors and holding objects. Importance is also placed on the robot's ability to track a human being, and the establishment of naturalistic robot-human communication. Additionally, RoboCup@Home tests the use of all kinds of sensors for voice interaction and image recognition technologies.

Open Platform League

Domestic Standard Platform League

Social Standard Platform League



RoboCupIndustrial

RoboCupIndustrial is a competition between industrial mobile robots focusing on logistics and warehousing systems. In anticipation of Industry 4.0, participants compete in automation through robots, autonomous systems, and mobile robot technology. Industry 4.0 refers to a manufacturing innovation making optimal use of information technology. It is envisioned that in Industry 4.0, machines will cooperate with each other and with humans to optimize manufacturing sites.

Logistics League



RoboCup@Work



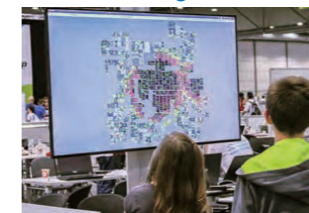
RoboCupRescue

RoboCupRescue is a competition in which participants compete in disaster strategy for rescue operations, using a major RoboCupRescue is a competition in which participants compete in disaster strategy for rescue operations, using a major disaster scenario, such as that of an earthquake. The RoboCupRescue project is divided into three leagues: the Rescue Robot League, the Rescue Simulation League and the Rapidly Manufactured Robot Competition. In the Rescue Robot League, robots carry out rescue operations, overcoming rubble and other obstacles, while acquiring information by themselves. In the Rescue Simulation League, a simulator is used to represent a progressing situation in a disaster-affected area on a computer screen, and many simulated autonomous robots carry out rescue operations through team work. Rapidly Manufactured Robot Competition, which starts since 2017, focuses on the challenges of robots operating in confined spaces and makes use of recent advances in low cost rapid prototyping, electronics and sensors to lower the barrier of entry into robotics research.

Robot League



Simulation League



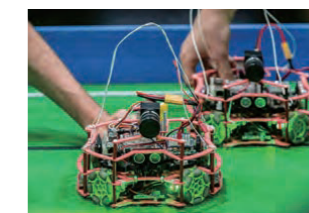
Rapidly Manufactured Robot Competition



RoboCupJunior

RoboCupJunior is a junior league participated in by children between the ages of 11 and 19. The main focus is on providing a venue for the collaborative learning for all team members, allowing them to cooperate and unite their strengths. RoboCupJunior selects competition themes that raise the participants' curiosity and exploratory drive and encourage them to meet robot design and building challenges. RoboCupJunior provides three challenges: Soccer, OnStage, and Rescue. RoboCup 2017 World Championship Nagoya, Japan sets up primary and secondary age categories, for up to 14 and 19 year olds, respectively, for challenges other than Rescue. A primary team must be comprised of members between the ages of 11 and 14. If a team has one or more members aged between 15 and 19, the team is considered a secondary team.

Soccer



Rescue



OnStage



Venue

Overall Venue Map

As for the location of each tournament, please refer to the full floor layout pages.



Portmesse Nagoya

Takeda Teva Ocean Arena

Robot Park Rest Space

Exhibition Hall 1

Exhibition Hall 2

Takeda Teva Ocean Arena

Event Hall

Exchange Center

Exhibition Hall 3

Parking Garage

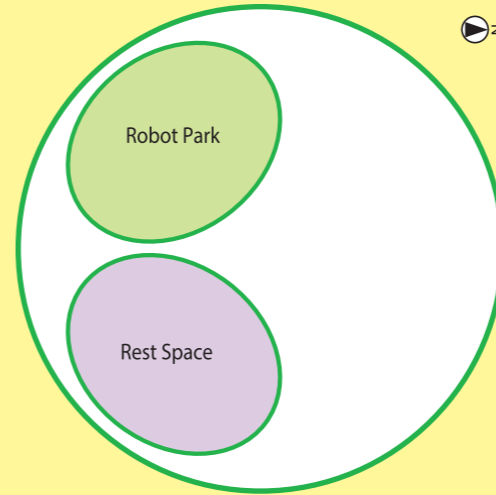
Kitchen Car Area

Restaurant

Event Hall/1F-2F

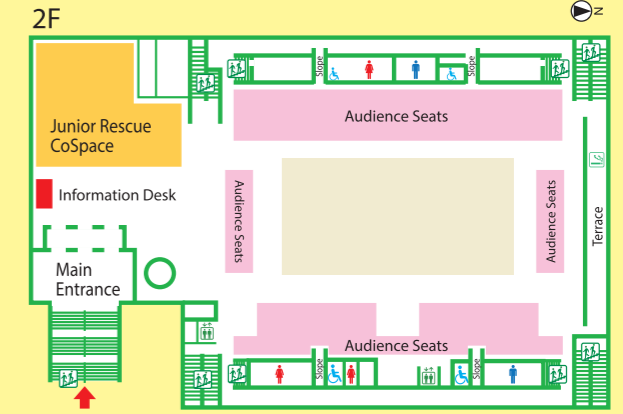
Exchange Center/1F-2F

Exhibition Hall 1



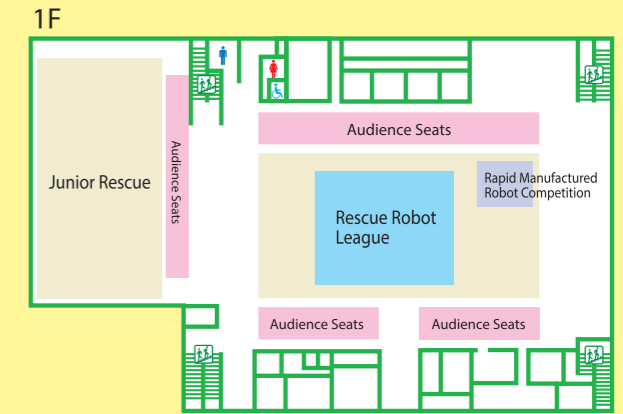
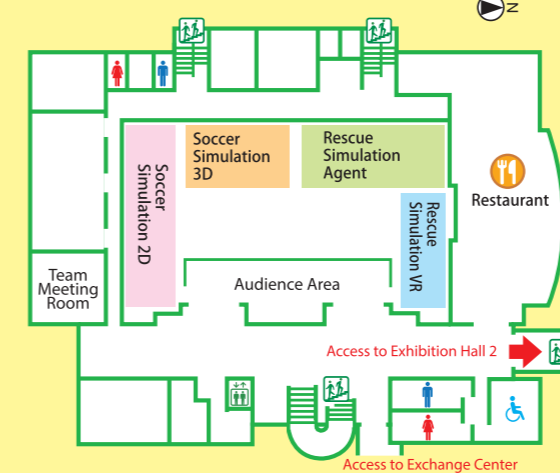
Takeda Teva Ocean Arena

- RoboCupRescue
- RoboCupJunior Rescue / Rescue CoSpace



Event Hall 2F

- RoboCupSoccer Simulation 2D/3D
- RoboCupRescue Simulation



Exchange Center Entrance Hall

Competition Schedule

Qualifying Rounds July 27-29 9:00~ Finals and Semi-finals July 30 9:00~

Major Leagues Finals

RoboCup Soccer

Middle Size League			
July 30	Semi Final	9:00	Exhibition Hall 3
	3rd Place	13:00	
	Final	14:30	
	Trustee Game	15:45	
Small Size League			
July 30	Semi Final	10:30	Exhibition Hall 3
	3rd Place	13:00	
	Final	14:00	
Humanoid League			
July 30	Semi Final	9:00	Exhibition Hall 3
	3rd Place	12:45	
	Final	14:15	
July 30	3rd Place	10:45	Exhibition Hall 3
	Final	13:30	
July 30	3rd Place	9:30	Exhibition Hall 3
	Final	12:00	

RoboCup Industrial

Logistics League			
July 30	3rd Place	11:00	Exhibition Hall 3
	Final	12:00	

Standard Platform League

Champions Cup			
July 30	Semi Final	9:00	Exhibition Hall 3
	3rd Place	12:00	
	Final	13:15	
Challenge Shield			
July 30	Semi Final	9:15	Exhibition Hall 3
	3rd Place	11:45	
	Final	12:15	
Mix Team Tournament			
July 30	3rd Place	15:00	Exhibition Hall 3
	Final	15:15	

Simulation League

2D			
July 30	Playoffs	9:00	Event Hall
	Final Tournament	10:00	
3D			
July 30	Semi Final	10:15	Event Hall
	3rd Place	12:15	
	Final	12:30	

RoboCup@Work

July 30	Final Round	12:30	Exhibition Hall 3
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RoboCup Rescue

Rescue Robot League			
July 30	Final(Round1)	9:00	Takeda Teva Ocean Arena
	Final(Round2)	11:00	
Rescue Simulation League			
July 30	Final	13:00	Event Hall
Virtual Agent			
July 29	Semi Final	9:45	Event Hall
July 30	Final	9:45	
The Rapidly Manufactured Robot Competition			
July 30	Final	9:00	Takeda Teva Ocean Arena

RoboCup@Home

Open Platform League			
July 30	Final	12:00	Exhibition Hall 3
Domestic Standard Platform League			
July 30	Final	12:00	Exhibition Hall 3
Social Standard Platform League			
July 30	Final	12:00	Exhibition Hall 3

Junior Leagues Finals

RoboCup Junior

Soccer			
Light Weight Primary			
July 29	Final Round	13:40	Exhibition Hall 2
July 30	SuperTeam Final Round	10:10	
Light Weight Secondary			
July 29	Final Round	15:00	Exhibition Hall 2
July 30	SuperTeam Final Round	10:50	
Open			
July 30	Final Round	9:30	Exhibition Hall 2
	SuperTeam Final Round	11:30	

Onstage

Primary			
July 29	Final Round	9:10	Exhibition Hall 2
July 30	SuperTeam Final Round	10:00	
Secondary			
July 29	Final Round	12:40	Exhibition Hall 2
July 30	SuperTeam Final Round	10:00	

Rescue

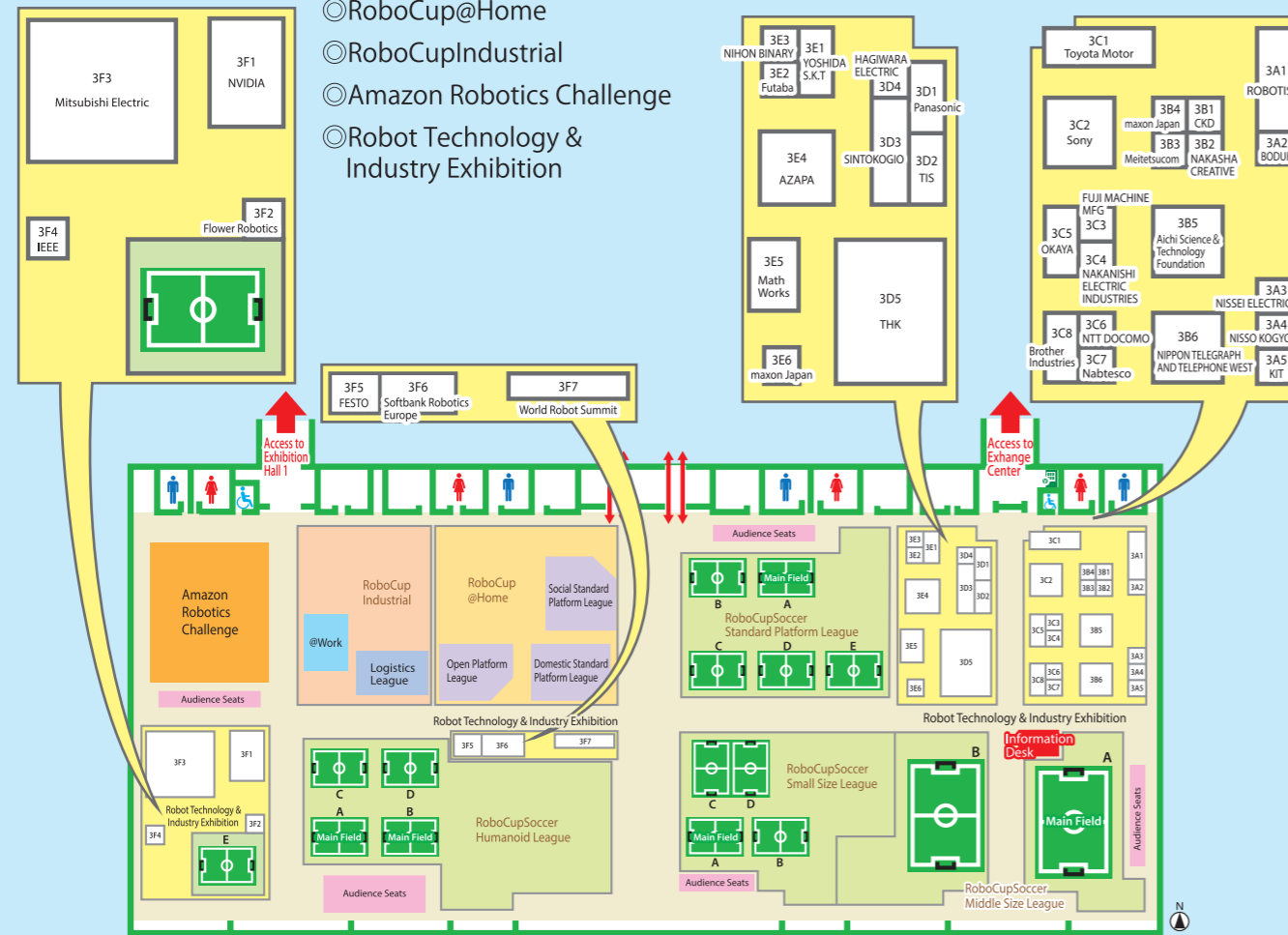
Line			
July 29	Final Round	9:30	Takeda Teva Ocean Arena
July 30	SuperTeam Final Round	9:30	
Maze			
July 29	Final Round	9:30	Takeda Teva Ocean Arena
July 30	SuperTeam Final Round	9:30	

Rescue CoSpace

Primary			
July 29	Semi Final	15:00	Takeda Teva Ocean Arena
July 29	3rd Place	15:40	
July 29	Final	15:40	Takeda Teva Ocean Arena
July 30	SuperTeam Semi Final	10:45	
July 30	SuperTeam 3rd Place	11:00	Takeda Teva Ocean Arena
July 30	SuperTeam Final	11:15	
Secondary			
July 29	Semi Final	15:40	Takeda Teva Ocean Arena
July 29	3rd Place	16:00	
July 29	Final	16:00	Takeda Teva Ocean Arena
July 30	SuperTeam Semi Final	10:45	
July 30	SuperTeam 3rd Place	11:00	Takeda Teva Ocean Arena
July 30	SuperTeam Final	11:15	

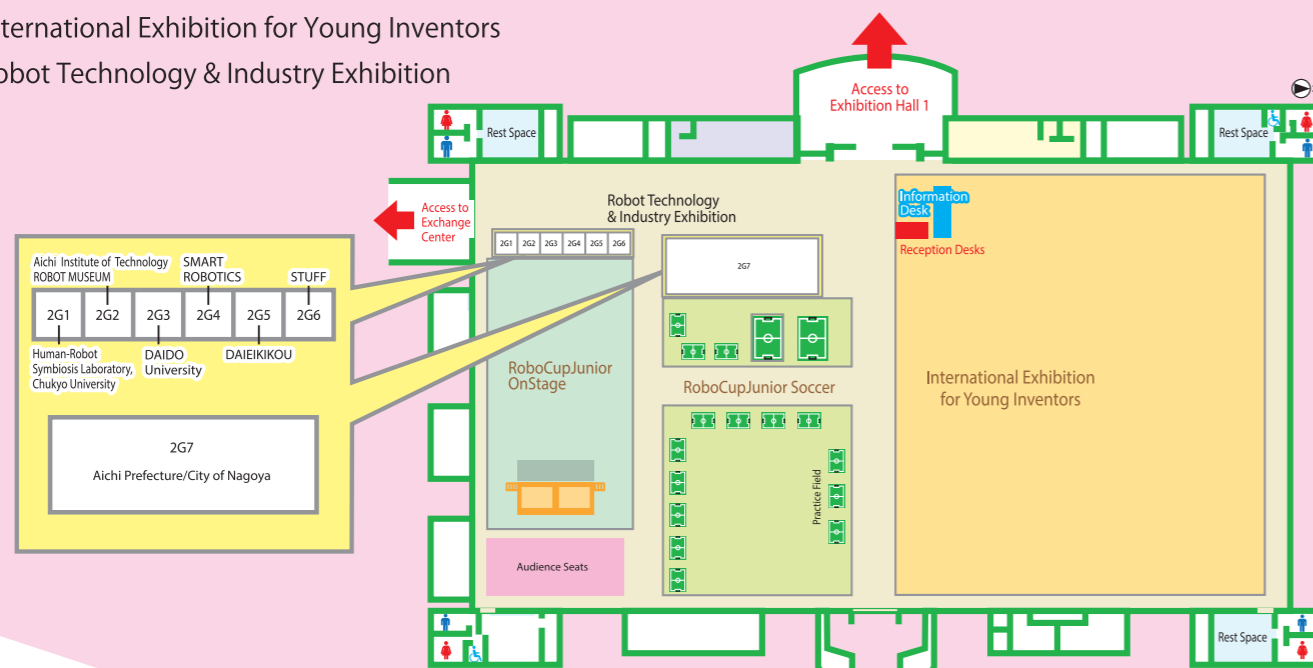
Exhibition Hall 3

- RoboCup Soccer
- RoboCup@Home
- RoboCup Industrial
- Amazon Robotics Challenge
- Robot Technology & Industry Exhibition



Exhibition Hall 2

- RoboCup Junior Soccer / OnStage
- International Exhibition for Young Inventors
- Robot Technology & Industry Exhibition



Please note that the layout of the venue and the allocation of the events are subject to change.

General Information



Wristband

There are toll area and free are in the venue. At the front of the toll area, please show your wristband to our staff.



Restricted Area

Visitors are not allowed to enter the paddock area, where the competitors adjust their robots and prepare for the competitions.



Food

Restaurants are located on the 1st floor and 2nd floor of Exchange Center and the 1st floor and 2nd floor of Event Hall in Portmesse Nagoya. There will also be some food trucks outside of the venues.



Internet

Please note that using Wi-Fi at the competition venues (Exhibition Hall 2, Exhibition Hall 3, and Takeda Teva Ocean Arena) is not allowed. Public Wi-Fi service will be available at Exchange Center and Event Hall.



Prayer Room

Prayer Room is located on the 1st floor of Takeda Teva Ocean Arena and on the 2nd floor of Exchange Center.



Smoking

You are not allowed to smoke outside of designated smoking areas in Portmesse Nagoya and Takeda Teva Ocean Area. Please see P.4 for more details.



Shopping

Maker's Pier (a brand new shopping mall where you can enjoy a good selection of food, shopping, and service) is located right next to the venue. You can also find a convenience store at Kinjo-futo station.



ATM

The closest ATM is located in Maker's Pier. Please see the map on P.4.



Official Shop

You can purchase Official RoboCup 2017 merchandise at the shop located on the 1st floor of Exchange Center.

Emergency Call

**Police
110**

**Fire, Illness & Injury
119**

**First Aid Station
+81-52-398-1834**



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