

RoboCup@Home Education

ONLINE CHALLENGE 2020

Online Classroom Open Platform

06 Robot System Integration (2/2) : Competition Development

Jeffrey Tan, Jupiter Robot | 2020.05.21

RoboCup@Home
EDUCATION

 MathWorks®

JUPITER
ROBOT

Online Challenge 2020: Online Classroom OP

06 Robot System Integration (1/2) : Application Development

Speakers: Jeffrey Tan, Jupiter Robot

Time: **May 21, 2020 (Thu) 10:00 - 11:00 am (GMT+8)**

06 Robot System Integration (2/2) : Competition Development

Speakers: Jeffrey Tan, Jupiter Robot

Time: **May 21, 2020 (Thu) 11:00 - 12:00 noon (GMT+8)**

Zoom: <https://cernet.zoom.com.cn/j/62199253306> | PW: robocup

Facebook Live: <https://www.facebook.com/robocupathomeedu/live/>

Web:
<https://www.robocupathomeedu.org/challenges/robocuphome-education-online-challenge-2020>

Online Classroom:
<https://www.robocupathomeedu.org/learn/online-classroom/online-challenge-2020>

** Privacy reminder: Video will be recorded and published online.

Robot System Integration

Application Development

- Summary of Previous Classes
- System Integration
 - People Tracking (Follow Me)
 - PartyBot

Competition Development

- RoboCup@Home Tasks
 - @Home Education Rules 2020
 - @Home Rulebook 2018
- Open Challenge
- Current Issue: COVID-19 Pandemic

RoboCup@Home Tasks

RoboCup@Home Education Rules 2020

<https://www.robocupathomeedu.org/rules>

- Task 1: Carry My Luggage
- Task 2: Find My Mates
- Task 3: Receptionist

RoboCup@Home Rulebook 2018

<https://athome.robocup.org/rules/>

- Speech and Person Recognition
- Help Me Carry
- Restaurant

Open Challenge (Finals)

RoboCup@Home Scenario

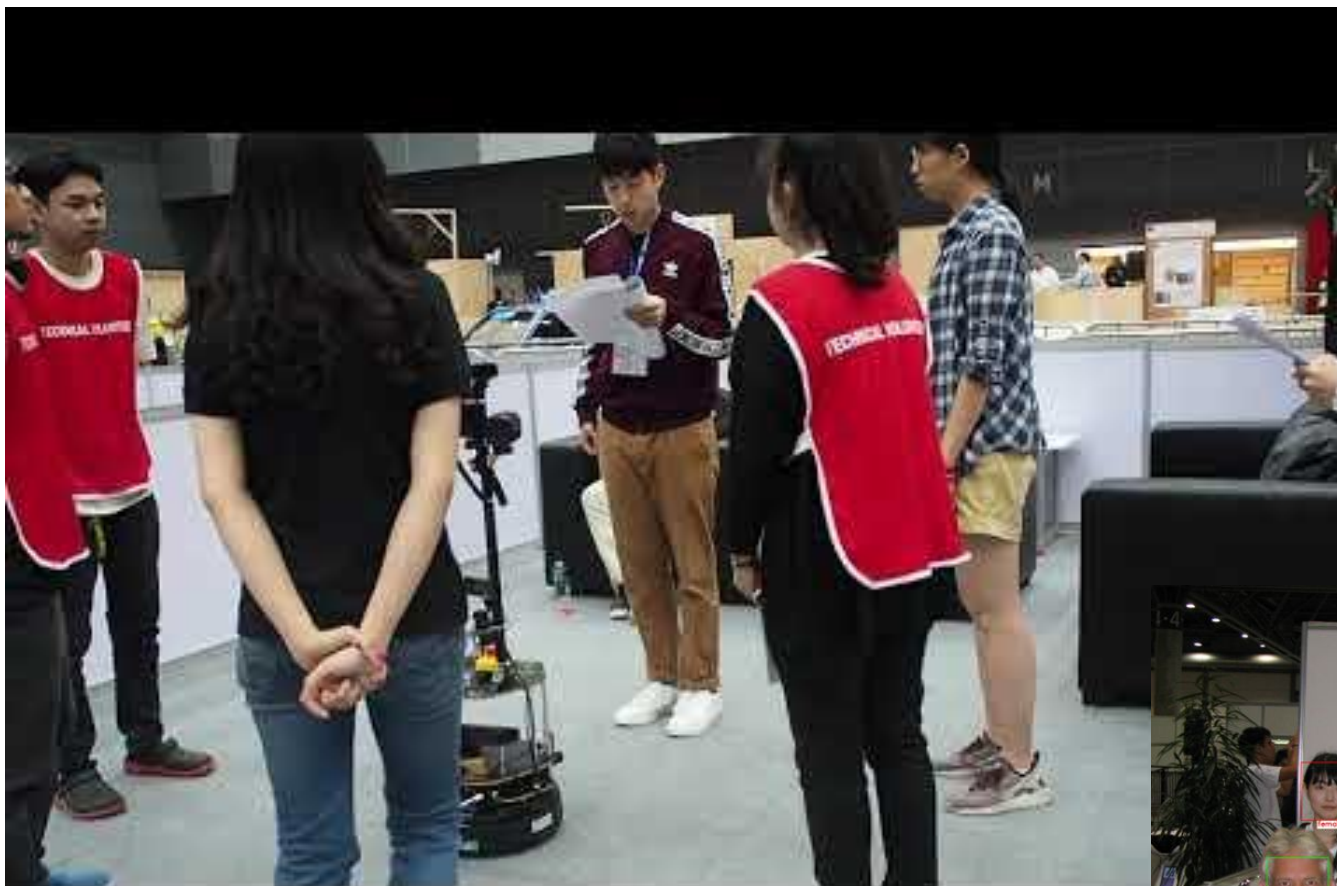


(a) Typical arena



(b) Typical objects

RoboCup@Home Task: Speech and Person Recognition



Team KameRider in RCAP 2017

Person recognition result in RoboCup 2016



RoboCup@Home Task: Help Me Carry



Team KameRider in RCAP 2017

RoboCup@Home Task: Restaurant



Current Issue: COVID-19 Pandemic



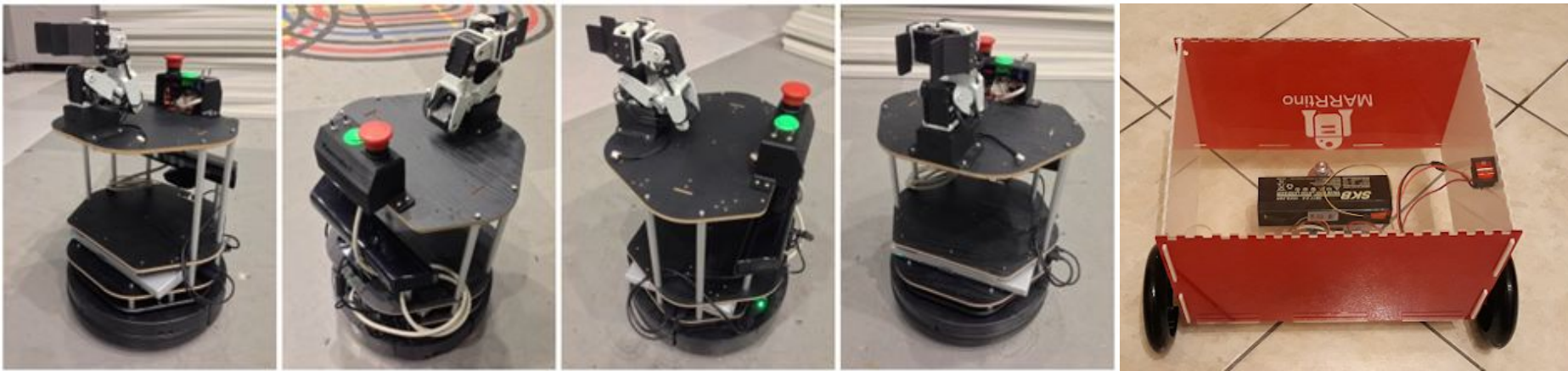
Assignment

Join RoboCup@Home Education Online Challenge 2020!

- Online Entry Form: <https://forms.gle/UBREeC1xTCVQ9wr78>
- Online Entry Form (backup): <https://www.wjx.cn/jq/72082120.aspx>

Important Dates

- Entry Application: April 1 ~ June 10, 2020
- Online Classroom: April 16 ~ May 21, 2020
- Due of Technical Video Challenge Materials Submission: June 10, 2020
- Technical Video Challenge Review: June 10 ~ 15, 2020
- Online Challenge: June 24 ~ 28, 2020



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ONLINE CHALLENGE 2020

Online Classroom Open Platform

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Contact: oc@robocupathomeedu.org

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