

2022 中国机器人大赛&RoboCup 机器人世界杯中国 赛

线上赛方案

项目类： RoboCup 中型组

项目名称： 开放挑战

RoboCup 中型组技术委员会
2022 年 11 月 7 日

一、 设备要求、线上平台

采用腾讯会议或 ZOOM 线上会议软件进行线上比赛。参赛队需要准备至少 4 个图像采集设备用于比赛现场各视角画面拍摄。参赛队必须准备能流畅进行视频会议的网络环境。比赛场地、道具由参赛队自备，具体要求在赛前线上准备会上明确。

二、 比赛规则

The open challenge is to provide an open scene for all participating teams engaged in multi robot cooperation research to test the cooperation effect. The game task is to use two or three robots to "encircle" the ball from the midline to the goal. The competition field is the same as that of the Cooperation Challenge, and there are two obstacles on the field. The shape, volume and weight of the robot are not limited. The robot must send the ball to the goal in the form of "encirclement", that is, the robot can only touch the ball and cannot use any device or structure to control the ball. Each team has 3 times for this challenge, and the final result is the one with good results.

The robots of participating teams must have the following characteristics:

- Full autonomy
- Multi robot cooperation
- Positioning in a structured environment

Rules:

- The starting position of the ball is in the middle circle designated by the referee.
- There are two obstacles on the court, and the location is designated by the referee.
- When the ball is encircled into in the goal, stop timing.
- Each time the robots touch the obstacles, it will increase the total time by 5%.
- If the ball goes out of the boundary or stays in place for more than 30 seconds, the challenge is over.

三、 赛前调试、设备协调会

2022 年 11 月 16 日晚 19:30-21:00 召开线上赛前准备会，公布比赛安排、抽签、答疑。

2022 年 11 月 19 日晚 19:30-20:30，第一次线上调试 **(所有参赛队必须参加。不参加将失去比赛资格)**。

2022 年 11 月 20 日晚 19:30-20:30，第二次线上调试（仅对有需要的参赛队开放）。

四、 赛程安排

2022 年 11 月 27 日

比赛序号	比赛时间
1	14:00~14:15
2	14:15~14:30
3	14:30~14:45

五、 技术交流群

中型组微信群，以及比赛专用群。