

Description of the Open Research Challenge

The following pages provide a brief description about demonstration our team will do during Open Research Challenge.

1. Team Information

- Team name: TJArk
- Affiliation: Robotics and Artificial Intelligence Lab, Tongji University, Shanghai, China.

2. What to demonstrate

Our teams' demonstration will be on an SPL field. The demonstration will include two aspects. One is the passing ball with distance controlled, and the other one is ball identification and positioning using Heat Map based on CNN with full images.

During presentation, the robot will identify and position ball firstly, then kick the ball to pass to another robot. The passing ball distance can be automatically adjusted according to the distance between two robots.