RoboCup Rescue 2023
Draft Rulebook
Part 1: Qualification

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1. Introduction

About the league

The RoboCupRescue Robot League is an international league of teams with one objective: Develop and demonstrate advanced robotic capabilities for emergency responders using annual competitions to evaluate best-in-class robotic solutions.

Contact and Sources of Additional Information:

- Please join our forum at https://rrl.forum.robocup.org to ask any general questions.
- For questions specific to your team, or to join our announcements mailing list, please email us at rescue.robot.league@nist.gov .
- Keep an eye on the website at https://rrl.robocup.org and https://2023.robocup.org for updates.
- Join our Facebook group https://www.facebook.com/groups/robocuprescue.

- To keep up to date with news across the RoboCup Federation, please email robocup-worldwide@lists.robocup.org.

2. Qualification Process

Summary:

- For documents and due dates, see https://rrl.robocup.org/forms-guides-labels/
- Fill in the Team Participation Form (TPF) to declare your intent to participate
  - You do not have to be 100% committed to attending, this is for planning purposes
- Submit your Team Description Paper (TDP) and a link to qualification video on EasyChar by the deadline

Team Description Paper:

All teams wishing to qualify for the competition have to submit a Team Description Paper (TDP) on EasyChair. The template and submission form are available on https://rrl.robocup.org/forms-guides-labels/. Based on the TDP examination, qualified teams will be announced on the website.

Additional requirements for qualification
- Place 1-3 or receive a best-in-class certificate in the last 5 years in either a regional open or a previous championship and submit a video showing the robot's performance in this competition
- OR submit a new qualification video as part of your TDP (details below)

Qualification Video

All teams shall submit a qualification video, to demonstrate the team's capabilities of building and testing a robot. It is understood that the robot that comes to the competition may be changed and improved compared to the one shown in the video.

Teams that qualify via past performance need not record an additional video and instead may submit a video of their robot performing some representative task(s) in the previous competition(s).

Teams that are not qualifying through past performance, and teams that have qualified and would like to demonstrate new capabilities, should record new qualification video(s). The video has to be submitted as part of your TDP and needs to show us the capabilities of your robot and developed software. The demonstrated capability should be relevant to the RoboCup Rescue competition, e.g. Dexterity, Maneuvering, Mobility, Mapping, using at least two of the standard tests where possible, done together or separately. For example, the video might show a robot

traversing over some blocks of wood, laid out in the same manner as the K-rail terrain, performing the Linear Inspect task using cups with eye charts at the bottoms of them arranged in the appropriate configuration, then traversing back over the K-rail terrain, before repeating. The format should match a RoboCupRescue mission (readiness test optional), being 20 minutes in length for each test, and show the robot, and what the operator sees as side-by-side, picture-in-picture, or two separate videos. See guidance from 2021 for an example procedure for creating picture-in-picture and side-by-side videos.

For completely new teams who do not have a working robot or any standard test method apparatuses constructed, please document the state of construction in a video; this does not require a specific task, form, or format.