



RoboCup@Home

Instuctions for Local Chair 2023

Last Build Date: March 21, 2024

1 arena

Between $80m^2$ and $100m^2$. area

style Country standard.

decoration According to the customs of the country. minimum Composi-Living room, office, bedroom and kitchen.

tion

walls 1.1

60 cmMinimum height

Maximum height It should not disrupt the public's view. Decoration The walls may contain poster or pictures.

1.2Floor

With some grip to prevent robots from shak-Type

Same color or texture of the wall Color/texture

Steps There should be no steps. Carpet There should be no carpet.

1.3 Doors

Amount At least two doors. Entry and exit of the

> The entrance door should open to inside the houve, as the output door should

open to outside the house.

Knobs The door handles should be rectangular

preferably. Do not use round door handles.

Furniture 1.4

Type Typical of the country.

1 small dining table with two to four chairs.

1 sofa with two or three places.

2 chairs or armchairs.

1 Television hack.

1 television with remote control.

1 bookshelf (with some books inside).

1 a refrigerator (should not be less than 120 cm).

- 2 plant glass.
- 1 dishwasher.
- 1 bed.
- 1 Office table with chair.
- 2 trash bins with 20 cm (minimum) diameter at the opening. They must have removable lids with rigid straps.

2 Arena objects

2.1 Table utensils

- 1 Set of dishes (minimum 3 items).
- 1 Set of bowls (minimum 3 items).
- 1 Set of cups (minimo 3 items).
- 1 Napkin package.
- 1 Set of cutlery (fork, knife and spoon).
- 10 plastic trash bags (medium size).
- 4 Shopping bags: Light and with rigid straps.
- 2 trays: tray or basket, intended for handling with both hands.
- 1 Object that I can put liquid (for example, jar).
- 1 heavy object: weight between 1.0kg and 1.5kg (for example, water bottle).
- 1 Tiny object: light, not larger than $5 cm^3$ (for example, tea bag).
- 1 Fragile object: easy to break (for example, egg).
- 1 A deformable object: flexible that can appear in different forms (for example, cloth).

2.2 Objects for recognition and manipulation

The objects are presented to competitors with kits.

Manipulation : All objects must be parasible to manipulate

with only one hand and weigh a maximum of

1.5kg.

Amount : The number of kits is defined by the number

of participating teams. 1 kit for the arena and

1 kit for every 3 participating teams.

Definition : The items are defined during the competition

(Warm Up).

Items : Kits should be between 15 and 20 items. They

may contain, for example, the following ele-

ments:

Drinks	Cleaning supplies	Pantry items	Fruits	Snacks	Cutlery
Coconut Water	Cleaner	Corn Flakes	Apple	Cookie	Spoon
Coke	Cloth	English Sauce	Banana	Pringles	Fork
Guarana	Sponge	Mustard	Orange		Knife
Ice Tea		Tomato Sauce	Kiwi		Plate
Tonic		Tuna Can			Bowl
Water		Corn Flakes			Mug

NOTE: A representative of the local organization must accompany the category coordinator to a local supermarket to overcome the items.

3 Other materials

- 2 Stopwatch.
- 8 Poster supports.
- 1 Sound system with at least one lapel to connect to the robot.
- 1 Monitor for score presentation and information to the public.