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# RoboCup@Home

Forms & Score Sheets

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# Registration Form



**Team name:** \_\_\_\_\_

**Team leader name:** \_\_\_\_\_

## Safety first!

The speed of the robots should ensure safe operation. This means that the robot is not allowed to go faster than the local speed limits. During operation in an environment with humans it may not exceed a walking pace of humans (6 kph, 3.7 mph).

At any time when operating the robot inside and outside the scenario the owners have to stop the robot immediately if there is a remote possibility of dangerous behavior towards people and/or objects. If a referee, member of the Technical or Organizational committee, an Executive or Trustee of the federation tells the team to stop the robot, there will be no discussion and the robot has to be stopped *immediately*.

If the team does not comply, the team and its members can be excluded from the ongoing competition immediately by a decision of the RoboCup@Home Technical Committee. Furthermore, the team and its members can be banned from future competitions for a period not less than a year by a decision of the RoboCup Federation Trustee Board.

	Robot 1	Robot 2
Size of the robot		
Emergency button(s)		
Start button		
Collision avoidance		
Voice of the robot		
Robot speaker system		
Use of external devices		
ASR Bypassing method		
Other safety issues		
Custom containers.		

## External Devices:

I have read and fully understood the “Safety First” statement and agree to it. Furthermore, I agree to obey the rules in the official RoboCup@Home RuleBook.

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Poster Session

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

## Instructions:

1. Please watch all posters carefully.
2. There will be a team member for questions about the poster.
3. After viewing the poster and asking your questions you may have, please fill in the evaluation sheet below.
4. Is not allowed to evaluate your own team.
5. You may use the space below "Remarks:" to take notes for yourself.
6. Enter your team's name ("Team name") and your name ("referee name") on top of the sheet.
7. Sign the form using either "Referee" or "Team leader" slots at the bottom.

## Evaluation sheet

Team	Overall score of poster (0-10)
Austin Villa@Home	
Australian Centre for Robotic Vision	
CARL@Home	
CATIE Robotics	
eR@sers	
Hibikino-Musashi@Home	
homer@UniKoblenz	
KameRider OPL	
KameRider SSPL	
LiU@HomeWreckers	
LyonTech	
ORIon	
Pumas	
PUMAS-DSPL	
RoboCanes-VISAGE	
RoboFEI@Home	
RT Lions	
SinfonIA Pepper Team	
Team Northeastern	
Team Tidyboy	
Tech United Eindhoven	
Tinker	
Uchile Pepper	
UNSW@Home	
UTS Unleashed!	
Walking Machine	

## Remarks:

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*Date & time*

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*Referee*

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*Team leader*

# Score Sheet



**Test:** Carry my Luggage

**Team name:** \_\_\_\_\_

**Referee name:** \_\_\_\_\_

The maximum time for this test is 5 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b><i>Main Goal</i></b>				
Take the bag to the car	500	_____	_____	_____
Request Bag Handover	-100	_____	_____	_____
Re-find by Signaling	-100	_____	_____	_____
Re-find by Moving Backwards	-200	_____	_____	_____
<b><i>Bonus Rewards</i></b>				
Re-enter the arena	100	_____	_____	_____
Avoid crowd while following	200	_____	_____	_____
Avoid the small object on the ground	50	_____	_____	_____
Avoid the hard-to-see 3D object	50	_____	_____	_____
Avoid retractable barrier	100	_____	_____	_____
<b><i>Special Penalties &amp; Bonuses</i></b>				
Not attending	-500	_____	_____	_____
<b><i>Score per try</i></b>	1000	_____	_____	_____
<b>Total Score</b>	1100	_____		
<b>Remarks:</b>				

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Tidy Up

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 5 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Moving an object to the appropriate location	5×100	_____	_____	_____
Request object locations by speech	5×-30	_____	_____	_____
Request object locations by gesture	5×-40	_____	_____	_____
Request object locations by guiding	5×-20	_____	_____	_____
Request object interaction by a human	5×-30	_____	_____	_____
<b>Bonus Rewards</b>				
Taking out the garbage	100	_____	_____	_____
Moving a <i>tiny</i> object to the appropriate location	200	_____	_____	_____
Moving a <i>heavy</i> object to the appropriate location	200	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
Using alternative start signal	-100	_____	_____	_____
<hr/>				
Score per try	1000	_____	_____	_____
Total Score	1100	_____		

Remarks:

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: General Purpose Service Robot

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 5 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Complete a command	3× 250	_____	_____	_____
Receiving command not from the instruction point	3× -50	_____	_____	_____
Custom Operator	3× -50	_____	_____	_____
Alternative HRI	3× -75	_____	_____	_____
<b>Bonus Rewards</b>				
Understand command given by naive operator	3× 50	_____	_____	_____
Complete all 3 commands in time	100	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
Using alternative start signal	-100	_____	_____	_____
<hr/>				
Score per try	1000	_____	_____	_____
Total Score	1100	_____		

Remarks:

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Receptionist

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 5 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Introduce a new guest to every other guest and offer a seat	2× 250	_____	_____	_____
Continue with wrong name or drink	2× -50	_____	_____	_____
Alternative HRI	2× -75	_____	_____	_____
Recognizing People	2× -200	_____	_____	_____
<b>Bonus Rewards</b>				
Open the entrance door for a guest	2× 200	_____	_____	_____
Describe the first guest to the second guest	100	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
<b>Score per try</b>	1000	_____	_____	_____
<b>Total Score</b>	1100	_____	_____	_____

Remarks:

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader



# Score Sheet



Test: Storing Groceries

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 5 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Move an object next to objects of the same category in the shelf	5×100	_____	_____	_____
Misplace an Object	5×-40	_____	_____	_____
Request object locations by gesture	5×-20	_____	_____	_____
Request object interaction by a human	5×-60	_____	_____	_____
<b>Bonus Rewards</b>				
Opening the shelf door	100	_____	_____	_____
Moving a <i>tiny</i> object	200	_____	_____	_____
Moving a <i>heavy</i> object	200	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
Using alternative start signal	-100	_____	_____	_____
<hr/>				
<b>Score per try</b>	1000	_____	_____	_____
<b>Total Score</b>	1100	_____		
<b>Remarks:</b>				

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Clean the Table

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 10 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Place tableware inside the dishwasher	4×100	_____	_____	_____
Place cutlery inside the dishwasher	4×150	_____	_____	_____
Request object locations by gesture	8×-40	_____	_____	_____
Request object handover	8×-75	_____	_____	_____
<b>Bonus Rewards</b>				
Opening the dishwasher door	150	_____	_____	_____
Pulling out the dishwasher racks	250	_____	_____	_____
Placing the dishwasher tab inside the dishwasher	350	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
Using alternative start signal	-100	_____	_____	_____
<hr/>				
Score per try	1750	_____	_____	_____
Total Score	1925	_____		
Remarks:				

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



**Test:** Enhanced General Purpose Service Robot

**Team name:** \_\_\_\_\_

**Referee name:** \_\_\_\_\_

The maximum time for this test is 10 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Complete a command	3× 500	_____	_____	_____
Receive a command not from the instruction point	3× -50	_____	_____	_____
Custom Operator	3× -100	_____	_____	_____
Alternative HRI	3× -150	_____	_____	_____
<b>Bonus Rewards</b>				
Understand command given by naive operator	3× 150	_____	_____	_____
Leave the arena autonomously	100	_____	_____	_____
Complete all 3 tasks with minimal help	200	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	-500	_____	_____	_____
Using alternative start signal	-100	_____	_____	_____
<hr/>				
Score per try	2250	_____	_____	_____
Total Score	2475	_____		
Remarks:				

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Hand me That

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 10 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Correctly name an object	5×200	_____	_____	_____
Ask yes or no question	−50	_____	_____	_____
Ask question about an attribute of the object	−100	_____	_____	_____
Request help by asking the operator to move the object closer	−150	_____	_____	_____
<b>Bonus Rewards</b>				
Understand two different non-verbal commands	250	_____	_____	_____
Describe unique feature of object	5×100	_____	_____	_____
<b>Special Penalties &amp; Bonuses</b>				
Not attending	−500	_____	_____	_____
Using alternative start signal	−100	_____	_____	_____
<hr/>				
Score per try	1750	_____	_____	_____
Total Score	1925	_____		
Remarks:				

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



Test: Restaurant

Team name: \_\_\_\_\_

Referee name: \_\_\_\_\_

The maximum time for this test is 10 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b><i>Main Goal</i></b>				
Take and serve an order	2×500	_____	_____	_____
Request help by receiving directions	-25	_____	_____	_____
Request guidance to a table	-200	_____	_____	_____
Deliver a partly wrong order	2×-350	_____	_____	_____
Deliver a fully wrong order	2×-500	_____	_____	_____
Handing over an order instead of placing	2×-100	_____	_____	_____
<b><i>Bonus Rewards</i></b>				
Use an unattached tray to transport an order	2×250	_____	_____	_____
Transport two orders at once	250	_____	_____	_____
<b><i>Special Penalties &amp; Bonuses</i></b>				
Not attending	-500	_____	_____	_____
<b><i>Score per try</i></b>	1750	_____	_____	_____
<b>Total Score</b>	1925	_____	_____	_____

Remarks:

\_\_\_\_\_  
Date & time

\_\_\_\_\_  
Referee

\_\_\_\_\_  
Team leader

# Score Sheet



**Test:** Final Demonstration — Jury Evaluation

**Team name:** \_\_\_\_\_

**Referee name:** \_\_\_\_\_

## Instructions:

1. Please watch all demonstrations carefully.
2. At the end of the demonstration you may ask questions.
3. After demonstration and questions, please fill in the evaluation sheet below.
4. You may use the space below “Remarks:” to take notes for yourself.
5. Enter your your name (“referee name”) on top of the sheet.
6. Sign the form using the “Referee” slot at the bottom.

## Evaluation sheet

Team	Originality and presentation* (0-10)	Relevance/usefulness to everyday life (0-10)	Elegance of overall demonstration (0-10)	Success of overall demonstration (0-10)
Fifth				
Fourth				
Third				
Second				
First				

\* Story telling is to be rewarded

## Remarks:

\_\_\_\_\_  
*Date & time*

\_\_\_\_\_  
*Referee*

\_\_\_\_\_  
*Team leader*

# Score Sheet



**Test:** Final Demonstration — Executive Committee

**Team name:** \_\_\_\_\_

**Referee name:** \_\_\_\_\_

## Instructions:

1. Please watch all demonstrations carefully.
2. At the end of the demonstration you may ask questions.
3. After demonstration and questions, please fill in the evaluation sheet below.
4. You may use the space below “Remarks:” to take notes for yourself.
5. Enter your your name (“referee name”) on top of the sheet.
6. Sign the form using the “Referee” slot at the bottom.

## Criteria:

- Scientific contribution
- Contribution to @Home
- Relevance for @Home / Novelty of approaches
- Presentation and performance in the finals

## Evaluation sheet

Team	Efficacy of solution to main objective (0-10)	Elegance of solution to main objective (0-10)	Innovation/contribution of additional tasks (0-10)	Difficulty/Success of overall demonstration (0-10)
Fifth				
Fourth				
Third				
Second				
First				

## Remarks:

\_\_\_\_\_  
*Date & time*

\_\_\_\_\_  
*Referee*

\_\_\_\_\_  
*Team leader*