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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>Main Goal</b>				
Take the bag to the car	500	_____	_____	_____
Hand-over the bag	-200	_____	_____	_____
Regain operator's track by natural interaction	5×-100	_____	_____	_____
Regain operator's track by non-natural interaction	5×-200	_____	_____	_____
Regain operator's track by direct contact	5×-400	_____	_____	_____
<b>Bonus rewards</b>				
Reentering the arena	100	_____	_____	_____
Avoid the crowd obstructing path	100	_____	_____	_____
Avoid the small object on the ground	100	_____	_____	_____
Avoid the hard-to-see 3D object	100	_____	_____	_____
Avoid the area blocked with retractable barriers	100	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	100	_____	_____	_____
<b>Score per try</b>				
	1000	_____	_____	_____
<b>Total score</b>				
	1100	_____	_____	_____

Remarks:

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

\_\_\_\_\_  
Referee

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

# Score Sheet



Test: Clean 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>				
Place an object at the appropriate location	5×100	_____	_____	_____
Receiving human help (telling where an object can be found)	5×-30	_____	_____	_____
Receiving human help (pointing out object to be moved)	5×-40	_____	_____	_____
Receiving human help (Guiding the robot near an object to be moved)	5×-20	_____	_____	_____
Receiving human help (telling robot which category an object is or where to place it)	5×-30	_____	_____	_____
Receiving human help (physically interacting with object)	5×-60	_____	_____	_____
<b>Bonus rewards</b>				
Opening entrance door without human help	200	_____	_____	_____
Moving a <i>tiny</i> object	150	_____	_____	_____
Moving a <i>heavy</i> object	150	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	100	_____	_____	_____
<hr/>				
<b>Score per try</b>	1000	_____	_____	_____
<b>Total score</b>	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>				
Perform each task	3× 250	_____	_____	_____
Using custom operator or bypassing ASR	3× -50	_____	_____	_____
<b>Bonus rewards</b>				
Understand command given by naive operator	3× 100	_____	_____	_____
Provide audio recording and transcript	3× 100	_____	_____	_____
Autonomously leaving the arena	150	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	150	_____	_____	_____
<hr/>				
<b>Score per try</b>	1500	_____	_____	_____
<b>Total score</b>	1650	_____		

**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><i>Main Goal</i></b>				
Introduce the 1st guest to John	100	_____	_____	_____
Offer an empty seat to the 1st guest	150	_____	_____	_____
Introduce the 2nd guest to John and 1st guest	100	_____	_____	_____
Offer an empty seat to the 2nd guest	150	_____	_____	_____
Misunderstanding the name of a guest	2× -50	_____	_____	_____
<b><i>Bonus rewards</i></b>				
Opening the entrance door to a guest	2× 200	_____	_____	_____
Describing the first guest to the second guest	100	_____	_____	_____
<b><i>Special penalties &amp; standard bonuses</i></b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	100	_____	_____	_____
<b><i>Score per try</i></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><i>Main Goal</i></b>				
Move an object next to their peers in the shelf	5×100	_____	_____	_____
Receiving human help (point at target location)	5×-30	_____	_____	_____
Receiving human help (move object)	5×-100	_____	_____	_____
<b><i>Bonus rewards</i></b>				
Opening the shelf door without human help	300	_____	_____	_____
Moving a <i>tiny</i> object	100	_____	_____	_____
Moving a <i>heavy</i> object	100	_____	_____	_____
<b><i>Special penalties &amp; standard bonuses</i></b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	100	_____	_____	_____
<b><i>Score per try</i></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><i>Main Goal</i></b>				
Place all tableware and cutlery inside the dishwasher	1000	_____	_____	_____
Pointing at object	5×-50	_____	_____	_____
Handover an object	5×-150	_____	_____	_____
Bypassing tableware storage	3×-200	_____	_____	_____
Bypassing cutlery storage	2×-250	_____	_____	_____
<b><i>Bonus rewards</i></b>				
Opening the dishwasher door	300	_____	_____	_____
Pulling out the dishwasher racks	300	_____	_____	_____
Placing the Cascade Pod inside the dishwasher	300	_____	_____	_____
Pointing at the Cascade Pod	-100	_____	_____	_____
Handover the Cascade Pod	-200	_____	_____	_____
Autonomously leaving the arena	100	_____	_____	_____
<b><i>Special penalties &amp; standard bonuses</i></b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	200	_____	_____	_____
<b><i>Score per try</i></b>	2000	_____	_____	_____
<b>Total score</b>	2200	_____		
<b>Remarks:</b>				

\_\_\_\_\_  
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>				
Perform each task	3×500	_____	_____	_____
Using custom operator or bypassing ASR	3×-150	_____	_____	_____
<b>Bonus rewards</b>				
Understand command given by naive operator	3×150	_____	_____	_____
Provide audio recording and transcript	3×100	_____	_____	_____
Find the operator when called	150	_____	_____	_____
Autonomously leaving the arena	100	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	250	_____	_____	_____
<hr/>				
Score per try	2500	_____	_____	_____
Total score	2750	_____		
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>Group 1</b>				
Name/touch the object being pointed	500	_____	_____	_____
Asking clarifying question	3× -150	_____	_____	_____
Incorrect guess	2× -200	_____	_____	_____
<b>Group 2</b>				
Name/touch the object being pointed	500	_____	_____	_____
Asking clarifying question	3× -150	_____	_____	_____
Incorrect guess	2× -200	_____	_____	_____
<b>Group 3</b>				
Name/touch the object being pointed	500	_____	_____	_____
Asking clarifying question	3× -150	_____	_____	_____
Incorrect guess	2× -200	_____	_____	_____
<b>Group 4</b>				
Name/touch the object being pointed	500	_____	_____	_____
Asking clarifying question	3× -150	_____	_____	_____
Incorrect guess	2× -200	_____	_____	_____
<b>Group 5</b>				
Name/touch the object being pointed	500	_____	_____	_____
Asking clarifying question	3× -150	_____	_____	_____
Incorrect guess	2× -200	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	250	_____	_____	_____
<b>Score per try</b>	2500	_____	_____	_____
<b>Total score</b>	2750	_____	_____	_____

Remarks:

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

\_\_\_\_\_  
Referee

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

# Score Sheet



Test: Restaurant

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

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

The maximum time for this test is 15 minutes.

Action	Score	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try
<b>Main Goal</b>				
Take and serve an order	500	_____	_____	_____
Being guided to the <i>Kitchen-bar</i> or to a customer's table	2×-200	_____	_____	_____
Not making eye-contact when taking an order	-100	_____	_____	_____
Bypassing object manipulation (handover)	4×-50	_____	_____	_____
Bypassing object manipulation	5×-100	_____	_____	_____
<b>Second order (bonus reward)</b>				
Take and serve an additional order	500	_____	_____	_____
Being guided to the <i>Kitchen-bar</i> or to a customer's table	2×-200	_____	_____	_____
Not making eye-contact when taking an order	-100	_____	_____	_____
Bypassing object manipulation (handover)	4×-50	_____	_____	_____
Bypassing object manipulation	5×-100	_____	_____	_____
<b>Additional bonus rewards</b>				
Detect calling or waving customer	2×100	_____	_____	_____
Reach a customer's table without prior guidance/training	2×100	_____	_____	_____
Use an unattached tray to transport an order	2×300	_____	_____	_____
<b>Special penalties &amp; standard bonuses</b>				
Not attending	-500	_____	_____	_____
Using start button	-100	_____	_____	_____
Outstanding performance	200	_____	_____	_____
<b>Score per try</b>	2000	_____	_____	_____
<b>Total score</b>	2200	_____	_____	_____
<b>Remarks:</b>				

\_\_\_\_\_  
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*