RoboCup@Home

Forms & Score Sheets

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:

Score Sheet

Test: Carry my Luggage

Team name: _____

Referee name: _____

The maximum time for this test is 5 minutes.

Action	Score	1st **try**	2nd **try**	3rd **try**
Main Goal				
Perceiving the correct beg (visualize on screen or say which one)	*15*	_____	_____	_____
Picking up the correct bag	*100*	_____	_____	_____
Following the person to the car	*300*	_____	_____	_____
Avoiding the crowd of people obstructing the path	*50*	_____	_____	_____
Avoiding the small object on the ground	*50*	_____	_____	_____
Avoiding the hard-to-see object	*50*	_____	_____	_____
Avoiding the area blocked with retractable barriers	*50*	_____	_____	_____
Bonus rewards				
Re-entering the arena	*100*	_____	_____	_____
Joining and staying in the queue on the way to the arena	*300*	_____	_____	_____
Penalties				
Dropping the bag	*–50*	_____	_____	_____
Deus Ex Machina Penalties				
Rediscovering the operator by natural interaction	*–50*	_____	_____	_____
Rediscovering the operator by unnatural interaction	*–100*	_____	_____	_____
Rediscovering the operator by asking them to come back	*–150*	_____	_____	_____
Rediscovering the operator by direct contact	*–200*	_____	_____	_____
Special Penalties & Bonuses				
Not attending	*–500*	_____	_____	_____
Using alternative start signal	*–100*	_____	_____	_____
Outstanding performance	*101*	_____	_____	_____
Score per try	*1015*	_____	_____	_____
Total Score	*1116*	_____		

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	1st **try**	2nd **try**	3rd **try**
Main Goal				
Executing the task associated with each command	*3×400*	_____	_____	_____
Bonus Rewards				
Understanding a command given by a non-expert operator	*3×100*	_____	_____	_____
Deus Ex Machina Penalties				
Using a custom operator	*3×–50*	_____	_____	_____
Bypassing speech recognition	*3×–50*	_____	_____	_____
Instructing a human to perform parts of the task will apply a percentage penalty according to similar penalties in other Stage I tests.	*3×–400*	_____	_____	_____
Special Penalties & Bonuses				
Not attending	*–500*	_____	_____	_____
Using alternative start signal	*–100*	_____	_____	_____
Outstanding performance	*150*	_____	_____	_____
Score per try	*1500*	_____	_____	_____
Total Score	*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	1st try	2nd try	3rd try
Main Goal				
Guide the guest to the other guests (navigate to the guest group)	2×15	_____	_____	_____
Look in the direction of navigation or at the navigation goal	2×50	_____	_____	_____
Introduce a new guest to every other guest and the host	2×50	_____	_____	_____
Offer a free seat to the new guest	2×100	_____	_____	_____
Look at the person talking	2×25	_____	_____	_____
Look at the person the robot is introducing the guest to	2×50	_____	_____	_____
Qualitative robot social performance	50	_____	_____	_____
Bonus Rewards				
Open the entrance door for a guest	2×100	_____	_____	_____
Describe the first guest to the second guest (per corect attribute)	4×30	_____	_____	_____
Describe the first guest to the second guest (per incorrect attribute)	4×-30	_____	_____	_____
Penalties				
Wrong guest information was memorized (continue with wrong name or drink)	-50	_____	_____	_____
Persistent inappropriate gaze (away from conversational partner)	-50	_____	_____	_____
Persistent gaze not in the direction of the navigation while moving.	-10	_____	_____	_____
Deus Ex Machina				
Alternative HRI	2×-75	_____	_____	_____
Not recognizing people	2×-200	_____	_____	_____
Special Penalties & Bonuses				
Not attending	-500	_____	_____	_____
Outstanding performance	95	_____	_____	_____
Score per try	950	_____	_____	_____
Total Score	1045	_____		

Remarks:

_____   _____   _____
Date & time   *Referee*   *Team leader*

Score Sheet

Test: Serve the Breakfast

Team name: _____

Referee name: _____

The maximum time for this test is 5 minutes.

Action	Score	1st **try**	2nd **try**	3rd **try**
Main Goal				
Initial navigation to pick up area	15	_____	_____	_____
Perceiving object and categorizing it correctly (visualize or say)	4×15	_____	_____	_____
Picking up breakfast items for transportation to the table	4×50	_____	_____	_____
Placing breakfast items on the table	4×50	_____	_____	_____
Pouring cereal into the bowl	300	_____	_____	_____
Bonus Rewards				
Pouring milk into the bowl	300	_____	_____	_____
Placing a spoon next to the bowl	100	_____	_____	_____
Penalties				
Throwing or dropping an object on the table	4×–30	_____	_____	_____
Spilling cereal while pouring	–100	_____	_____	_____
Spilling milk while pouring	–100	_____	_____	_____
Deus Ex Machina Penalties				
Pointing at an object	4×–5	_____	_____	_____
Handing an object over to the robot	4×–50	_____	_____	_____
A human placing an object on the table	4×–50	_____	_____	_____
A human pouring cereal in the bowl	–300	_____	_____	_____
Special Penalties & Bonuses				
Not attending	–500	_____	_____	_____
Using alternative start signal	–100	_____	_____	_____
Outstanding performance	117	_____	_____	_____
Score per try	1175	_____	_____	_____
Total Score	1292	_____		

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	1st try	2nd try	3rd try
Main Goal				
Navigating to the table	*15*	_____	_____	_____
Perceiving object and categorizing it correctly	*5×15*	_____	_____	_____
Picking up an object for transportation to the cabinet	*5×50*	_____	_____	_____
Perceiving objects in shelf and saying on which layer the currently handled object should be placed	*5×15*	_____	_____	_____
Placing an object in the cabinet	*5×15*	_____	_____	_____
Placing an object next to similar objects on the cabinet	*5×50*	_____	_____	_____
Bonus Rewards				
Opening the cabinet door without human help	*200*	_____	_____	_____
Picking up a tiny object	*70*	_____	_____	_____
Placing a tiny object	*30*	_____	_____	_____
Picking up a heavy object	*70*	_____	_____	_____
Placing a heavy object	*30*	_____	_____	_____
Penalties				
Storing an object without categorizing it correctly	*5×−60*	_____	_____	_____
Deus Ex Machina Penalties				
A human handing an object over to the robot	*5×−50*	_____	_____	_____
A human placing an object in the cabinet	*5×−15*	_____	_____	_____
A human placing an object in the cabinet next to similar objects	*5×−50*	_____	_____	_____
A human pointing at a target location	*5×−25*	_____	_____	_____
Special Penalties & Bonuses				
Not attending	*−500*	_____	_____	_____
Using alternative start signal	*−100*	_____	_____	_____
Outstanding performance	*114*	_____	_____	_____
Score per try	*1140*	_____	_____	_____
Total Score	*1254*	_____		

Remarks:

_____ _____ _____
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	1st try	2nd try	3rd try
Main Goal				
Navigate to the table to pick up items	15	_____	_____	_____
Picking tableware (cup, bowl) for transportation to the dishwasher	2×40	_____	_____	_____
Picking up a plate for transportation to the dishwasher	50	_____	_____	_____
Picking up cutlery (spoon, fork) for transportation to the dishwasher	2×80	_____	_____	_____
Placing the tableware and cutlery inside the dishwasher	5×50	_____	_____	_____
Placing an item correctly (cleanable, convenient like a human would) in the dishwasher	5×50	_____	_____	_____
Bonus Rewards				
Pulling out the dishwasher rack	100	_____	_____	_____
Pushing in the dishwasher rack	100	_____	_____	_____
Opening the dishwasher door	200	_____	_____	_____
Closing the dishwasher door	200	_____	_____	_____
Picking up the dishwasher tab for transportation to the dishwasher	100	_____	_____	_____
Placing the dishwasher tab inside the dishwasher's hatch intended for the tab	200	_____	_____	_____
Deus Ex Machina Penalties				
Pointing at an object or telling the robot where an object is	5×–20	_____	_____	_____
Handing an object over to the robot	5×–70	_____	_____	_____
Placing an object	5×–180	_____	_____	_____
Special Penalties & Bonuses				
Not attending	–500	_____	_____	_____
Using alternative start signal	–100	_____	_____	_____
Outstanding performance	170	_____	_____	_____
Score per try	1705	_____	_____	_____
Total Score	1875	_____		

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	1st **try**	2nd **try**	3rd **try**
Main Goal				
Find and clearly state an encountered problem	*3× 150*	_____	_____	_____
Solve a problem	*3× 650*	_____	_____	_____
Deus Ex Machina Penalties				
Asking for location of a problem	*3× –200*	_____	_____	_____
Instructing a human to perform parts of the task will apply a percentage penalty according to similar penalties in other Stage II tests.	*3× –800*	_____	_____	_____
Special Penalties & Bonuses				
Not attending	*–500*	_____	_____	_____
Using alternative start signal	*–100*	_____	_____	_____
Outstanding performance	*240*	_____	_____	_____
Score per try	*2400*	_____	_____	_____
Total Score	*2640*	_____

Remarks:

_____   _____   _____
Date & time   *Referee*   *Team leader*

Score Sheet

Test: Restaurant

Team name: _____

Referee name: _____

Maximum time: 15 minutes

Action	Score	1st **try**	2nd **try**	3rd **try**
Regular Rewards				
Detect calling or waving customer	2×100	_____	_____	_____
Reach a customer's table without prior guidance/training	2×100	_____	_____	_____
Take an order.	2×300	_____	_____	_____
Serve an order.	2×300	_____	_____	_____
Qualitative robot social performance	50	_____	_____	_____
Bonus Rewards				
Use an unattached tray to transport	2×200	_____	_____	_____
Regular Penalties				
Not making eye-contact when taking an order	2×–100	_____	_____	_____
Deus ex Machina Penalties				
Being guided to a table	2×–200	_____	_____	_____
Asking the Barman to handover object to the robot	4×–100	_____	_____	_____
Guest needing to take the object from a tray or the robot's hand	4×–100	_____	_____	_____
Being told/pointed where is a table/*Kitchen-bar*	2×–100	_____	_____	_____
Special Penalties & Bonuses				
Not attending	–500	_____	_____	_____
Using alternative start signal	–100	_____	_____	_____
Outstanding performance	205	_____	_____	_____
Score per try	2050	_____	_____	_____
Total Score	2255	_____		

Remarks:

_____   _____   _____
Date & time   *Referee*   *Team leader*

Score Sheet

Test: Stickler for Rules

Team name: _____

Referee name: _____

Maximum time: 10 minutes

Action	Score	1st **try**	2nd **try**	3rd **try**
Regular Rewards				
Identify a guest breaking a house rule (indicating the rule by voice).	*4×100*	_____	_____	_____
Making eye-contact, politely clarify to the guest what action he should take.	*4×100*	_____	_____	_____
Confirm that the guest is following the rule.	*4×200*	_____	_____	_____
Bonus Rewards				
Making eye-contact, politely clarify to the guest what rule is being broken.	*4×100*	_____	_____	_____
Regular Penalties				
Talking to a guest about a rule they are not breaking	*4×–100*	_____	_____	_____
Deus ex Machina Penalties				
A human directs the robot towards a guest who is breaking a rule	*4×–50*	_____	_____	_____
A human tells the robot which rule is being broken	*4×–100*	_____	_____	_____
Special Penalties & Bonuses				
Not attending	*–500*	_____	_____	_____
Using alternative start signal	*–100*	_____	_____	_____
Outstanding performance	*200*	_____	_____	_____
Score per try	*2000*	_____	_____	_____
Total Score	*2200*	_____		

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*