



# RoboCup@Home

Forms & Score Sheets

Version: 2025 1

Last Build Date: November 11, 2024  $\,$  Time: 744

2024-10-28

# Registration Form



Team name:			
Team leader name:			
Safety first!			
_	. During operation in an e		obot is not allowed to go faster as it may not exceed a walking
immediately if there is a rea	mote possibility of dangeror or Organizational committe	us behavior towards peo ee, an Executive or Tru	owners have to stop the robot ple and/or objects. If a referee, stee of the federation tells the stopped <i>immediately</i> .
immediately by a decision	of the RoboCup@Home Trom future competitions for	Technical Committee. I	from the ongoing competition Furthermore, the team and its an a year by a decision of the
	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 under the rules in the official Rol		tatement and agree to it	. Furthermore, I agree to obey
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$Team\ leader$		



Test:	Poster Session	endi
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

T.	Overall score
Team	of poster (0-10)
Chief Scientist Office	
EPFL@Home	
eR@sers	
FBOT@Home	
Gentlebots	
Hibikino-Musashi@Home	
KIARO	
LAR@Home	
LASR	
LCASTOR	
LyonTech	
NimbRo@Home	
Pumas	
PUMAS-DSPL	
RoboCanes-VISAGE	
RoboFEI@Home	
RoBorregos rUNSWeep	
Serious Cybernetics Corporation (SCC)	
Sinfonia Uniandes	
SKUBA	
SOBITS	
SocRob@Home	
SUTURO-VaB	
Team of Bielefeld (ToBi)	
Tech United Eindhoven	
Tidyboy-DSPL	
Tidyboy-OPL	
Tinker	
TRAIL	
UT Austin Villa@Home	

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	ਢ		10		n. ¬.

_	

 $Date \ \ \mathcal{U} \ time$ 



alize on screen or say which one) estructing the path e ground retractable barriers	Score  300 15 100 50 50 50 50		2 <sup>nd</sup> try	
alize on screen or say which one) estructing the path e ground retractable barriers	300 15 100 50 50 50			
alize on screen or say which one) estructing the path e ground retractable barriers	300 15 100 50 50 50			
e ground retractable barriers	300 15 100 50 50 50			
e ground retractable barriers	15 100 50 50 50			
e ground retractable barriers	15 100 50 50 50			
e ground retractable barriers	100 50 50 50			
e ground retractable barriers	50 50 50			
e ground retractable barriers	50 50			
retractable barriers	50			
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n	50			
	200			
e on the way to the arena	300			
, and the second				
	-50			
,	00			
	-50			
_				
	200			
s	500			
	111			
	1115			
	1226			
1	s natural interaction unnatural interaction asking them to come back direct contact es	natural interaction $-50$ nnatural interaction $-100$ asking them to come back $-150$ lirect contact $-200$ as $-500$ $-100$ $-111$ $-1115$	1115     1115     1115     1115     1115     1100     1115     1100     1115	1115

 $Team\ leader$ 

 $Date \ \ \mathcal{U} \ time$ 



Test:	General Purpose Service Robot			RC	@Home
Team name:					
Referee name	:				
The maximum t	time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	ask associated with each command	3×400			
Bonus Reward	ds				
Understanding a	a command given by a non-expert operator	$3 \times 100$			
Deus Ex Mac	hina Penalties				
Using a custom	operator	$3 \times -50$			
Bypassing speed	th recognition	$3 \times -50$			
_	ıman to perform parts of the task will apply a				
centage penalty	according to similar penalties in other Stage I t	tests.			
-	$ties~ {\it \& Bonuses}$				
Not attending		-500			
Using alternativ		-100			
Outstanding per	rformance	150			
~ .		4700			
Score per try		1500			
Total Score		1650			
Remarks:		1000			

 $Team\ leader$ 

 $Date \ \mathcal{C} \ time$ 



					RC	boC ®н	up ome
Test:	Receptionist						ome
Team name:							
Referee name:							
The maximum tim	ne for this test is 5 minutes.						
Action		Score	$1^{st}$ t	$\mathbf{r}\mathbf{y}$	$2^{nd}$ try	$3^{rd}$ t	$\mathbf{r}\mathbf{y}$
Main Goal							
Guide the guest to	the other guests (navigate to the guest group)	$2 \times 15$		_			
Look in the directi	ion of navigation or at the navigation goal	$2 \times 50$					
Introduce a new g	uest to every other guest and the host	$2 \times 50$					
Offer a free seat to	the new guest	$2 \times 100$					
Look at the person	n talking	$2 \times 25$					
Look at the persor	n the robot is introducing the guest to	$2 \times 50$		_			
Qualitative robot s	social performance	50					
Bonus Rewards	-						
Open the entrance	e door for a guest	2×100		_			
=	guest to the second guest (per corect attribute)	4×30		_			
	guest to the second guest (per incorrect attribute)	•					
Penalties	,	,					
	mation was memorized (continue with wrong name	-5 <i>0</i>					_
Persistent inappro	priate gaze (away from conversational partner)	-50					
Persistent gaze not	t in the direction of the navigation while moving.	-10					
Deus Ex Machi							
Alternative HRI		$2\times-75$					
Not recognizing pe	eople	$2 \times -200$					
$Special\ Penaltie$	_						
Not attending	o C Donueco	-500					
Outstanding perfo	rmance	95					
o destanding perio	Thickney						
Score per try		950		_			_
Total Score		1045					
Remarks:							
20022202							

 $Team\ leader$ 



Test:	Serve the Breakfast			Ro	©Ноте
Team name:					
Referee nam	ne:				
The maximum	time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Initial navigat	ion to pick up area	15			
Perceiving obj	ect and categorizing it correctly (visualize or say)	$4 \times 15$			
Picking up bre	eakfast items for transportation to the table	$4 \times 50$			
Placing breakf	ast items on the table	$4 \times 50$			
Pouring cereal	into the bowl	300			
Bonus Rewa	rds				
Pouring milk i	nto the bowl	300			
Placing a spoo	on next to the bowl	100			
Penalties					
Throwing or d	ropping an object on the table	4×-30			
Spilling cereal	while pouring	-100			
Spilling milk v	vhile pouring	-100			
Deus Ex Ma	china Penalties				
Pointing at an	object	$4 \times -5$			
	oject over to the robot	$4 \times -50$			
=	ing an object on the table	$4 \times -50$			
A human pour	ring cereal in the bowl	-300			
=	$alties~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternat	ive start signal	-100			
Outstanding p	performance	117			
Score per tr	y	1175			
Total Score		1292			
Remarks:					
Date & time		-	Team le	eader	



Test:	Storing Groceries			RC	@Home
Team name	o:				
Referee nar	me:				
The maximum	m time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Navigating to		15			
_	eject and categorizing it correctly	$5 \times 15$			
	n object for transportation to the cabinet	$5 \times 50$			
_	bjects in shelf and saying on which layer the currer ct should be placed	atly $5 \times 15$			
Placing an ol	bject in the cabinet	$5 \times 15$			
Placing an ol	bject next to similar objects on the cabinet	$5 \times 50$			
Bonus Rew	pards				
Opening the	cabinet door without human help	200			
Picking up a	tiny object	70			
Placing a ting	y object	30			
Picking up a	heavy object	70			
Placing a hea	avy object	30			
Deus Ex M	Tachina Penalties				
A human har	nding an object over to the robot	$5 \times -50$	·		
A human pla	cing an object in the cabinet	$5 \times -15$	·		
A human pla	cing an object in the cabinet next to similar objects	$5 \times -50$			
A human poi	inting at a target location	$5 \times -25$			
Special Pen	$nalties \ {\it @ Bonuses}$				
Not attendin		-500			
Using alterna	ative start signal	-100			
Outstanding	performance	114			
Score per t	ry	1140			
Total Score	,	1254			
Remarks:					
itemarks.					
		-			
$Date \ \mathcal{E} \ time$	Referee		Team le	eader	



Test:	Clean the Table				@Home
Team name:					
Referee name	<b>:</b>				
The maximum	time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Navigate to the	e table to pick up items	15			
=	are (cup, bowl) for transportation to the dish	washer $2 \times 40$			
=	ate for transportation to the dishwasher	50			
- ·	ery (spoon, fork) for transportation to the di	shwasher $2 \times 80$			
	leware and cutlery inside the dishwasher	5×50			
_	n correctly (cleanable, convenient like a hum	an would) $5 \times 50$			
Bonus Rewar	cds				
Pulling out the	dishwasher rack	100			
Pushing in the	dishwasher rack	100			
Opening the di	shwasher door	200			
Closing the disl		200			
Picking up the	dishwasher tab for transportation to the dish	nwasher 100			
	hwasher tab inside the dishwasher's hatch int				
Deus Ex Mad	china Penalties				
Handing tablew	vare over to the robot	$2 \times -40$			
Handing plate	over to the robot	-50			
Handing cutler	y over to the robot	$2 \times -80$			
Having a huma	n place an object in the dishwasher	$5 \times -50$			
Special Penal Not attending	$ties \ {\it \& Bonuses}$	-500			
Using alternative	vo start signal	-100			
Outstanding pe	_	-100 170			
Score per try		1705			
Total Score		1875			
Remarks:		1070			
20022202					
Date & time			Team le	eader	

 $Date \ \ \mathcal{U} \ time$ 



Test:	Enhanced General Purpose Service R	obot			@Home
Team name:					
Referee name:					
The maximum tir	me for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\frac{Main\ Goal}{}$		Score	1 013	2 01 y	o try
	state an encountered problem	$3 \times 150$			
Solve a problem		$3 \times 650$			
Deus Ex Mach	ina Penalties				
Asking for location	on of a problem	$3 \times -150$			
_	nan to perform parts of the task will coording to similar penalties in other S				
Special Penaltic	$es~~\mathcal{E}~~Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Outstanding perfe	ormance	240			
Score per try		2400			
Total Score		2640			
Remarks:					

 $Team\ leader$ 



Team name:    Referee name:	
Maximum time:         15 minu           Action         Score         1st try         2nd try         3rd           Regular Rewards         2×100	
Maximum time:     Score $1^{st}$ try $2^{nd}$ try $3^{rd}$ Regular Rewards     Detect calling or waving customer $2 \times 100$	
Action         Score         1st try         2nd try         3rd           Regular Rewards         Detect calling or waving customer         2×100	
Regular Rewards         Detect calling or waving customer $2 \times 100$ Reach a customer's table without prior guidance/training $2 \times 100$ Take an order. $2 \times 300$ Serve an order. $2 \times 300$ Qualitative robot social performance $50$ Bonus Rewards $80$ Use an unattached tray to transport $2 \times 200$ Regular Penalties $80$ Not making eye-contact when taking an order $2 \times -80$ Not reaching the bar (barman has to move from behind the bar to interact $2 \times -80$ $2 \times -80$ With the robot) $2 \times -80$ Deus ex Machina Penalties $2 \times -200$ Being guided to a table $2 \times -200$ Asking the Barman to handover object to the robot $4 \times -50$ Guest needing to take the object from a tray or the robot's hand $4 \times -50$ Being told/pointed where is a table/Kitchen-bar $2 \times -100$ Special Penalties & Bonuses         Not attending $-500$ Using alternative start signal $-100$ Outstanding performance $205$ Score per try $2050$ Total Score	tes
Regular Rewards         Detect calling or waving customer $2 \times 100$ Reach a customer's table without prior guidance/training $2 \times 100$ Take an order. $2 \times 300$ Serve an order. $2 \times 300$ Qualitative robot social performance $50$ Bonus Rewards $80$ Use an unattached tray to transport $2 \times 200$ Regular Penalties $80$ Not making eye-contact when taking an order $2 \times -80$ Not reaching the bar (barman has to move from behind the bar to interact $2 \times -80$ $2 \times -80$ With the robot) $2 \times -80$ Deus ex Machina Penalties $2 \times -200$ Being guided to a table $2 \times -200$ Asking the Barman to handover object to the robot $4 \times -50$ Guest needing to take the object from a tray or the robot's hand $4 \times -50$ Being told/pointed where is a table/Kitchen-bar $2 \times -100$ Special Penalties & Bonuses         Not attending $-500$ Using alternative start signal $-100$ Outstanding performance $205$ Score per try $2050$ Total Score	$\mathbf{r}\mathbf{v}$
Reach a customer's table without prior guidance/training $2 \times 100$	
Take an order.	
Serve an order.   Qualitative robot social performance $S0$ Bonus Rewards  Use an unattached tray to transport $S0$ Regular Penalties  Not making eye-contact when taking an order $S0$ Not reaching the bar (barman has to move from behind the bar to interact $S0$ Being guided to a table $S0$ Asking the Barman to handover object to the robot $S0$ Being told/pointed where is a table/Kitchen-bar $S0$ Special Penalties & Bonuses  Not attending $S0$ Using alternative start signal $S0$ Cutal Score    Total Score	
Qualitative robot social performance $50$ Bonus Rewards       2×200         Use an unattached tray to transport $2\times200$ Regular Penalties $2\times-80$ Not reaching the bar (barman has to move from behind the bar to interact $2\times-80$ $2\times-80$ with the robot) $2\times-80$ Deus ex Machina Penalties $2\times-200$ Being guided to a table $2\times-200$ Asking the Barman to handover object to the robot $4\times-50$ Guest needing to take the object from a tray or the robot's hand $4\times-50$ Being told/pointed where is a table/Kitchen-bar $2\times-100$ Special Penalties & Bonuses $-500$ Not attending $-500$ Using alternative start signal $-100$ Outstanding performance $205$ Score per try $2050$ Total Score $2255$	
Bonus Rewards         Use an unattached tray to transport $2 \times 200$ Regular Penalties         Not making eye-contact when taking an order $2 \times -80$ Not reaching the bar (barman has to move from behind the bar to interact $2 \times -80$ with the robot)         Deus ex Machina Penalties $2 \times -200$ Being guided to a table $2 \times -200$ Asking the Barman to handover object to the robot $4 \times -50$ Guest needing to take the object from a tray or the robot's hand $4 \times -50$ Being told/pointed where is a table/Kitchen-bar $2 \times -100$ Special Penalties & Bonuses         Not attending $-500$ Using alternative start signal $-100$ Outstanding performance $205$ Score per try $2050$ Total Score $2255$	
Use an unattached tray to transport $2 \times 200$ Regular Penalties	
Regular Penalties         Not making eye-contact when taking an order $2 \times -80$ Not reaching the bar (barman has to move from behind the bar to interact $2 \times -80$ with the robot)         Deus ex Machina Penalties         Being guided to a table $2 \times -200$ Asking the Barman to handover object to the robot $4 \times -50$ Guest needing to take the object from a tray or the robot's hand $4 \times -50$ Being told/pointed where is a table/Kitchen-bar $2 \times -100$ Special Penalties & Bonuses         Not attending $-500$ Using alternative start signal $-100$ Outstanding performance $205$ Score per try $2050$ Total Score $2255$	
Not reaching the bar (barman has to move from behind the bar to interact $2\times-80$ with the robot)  **Peus ex Machina Penalties**  Being guided to a table $2\times-200$	
with the robot)  Deus ex Machina Penalties  Being guided to a table  Asking the Barman to handover object to the robot  Guest needing to take the object from a tray or the robot's hand $4 \times -50$ Being told/pointed where is a table/Kitchen-bar  Special Penalties & Bonuses  Not attending  Using alternative start signal  Outstanding performance  Score per try  2050  Total Score	
Being guided to a table $2\times-200$	
Asking the Barman to handover object to the robot  Guest needing to take the object from a tray or the robot's hand $4 \times -50$	
Guest needing to take the object from a tray or the robot's hand $4 \times -50$	
Being told/pointed where is a table/Kitchen-bar       2×-100	
Special Penalties & Bonuses         -500	
Not attending       -500	
Using alternative start signal       -100	
Outstanding performance         205	
Total Score 2255	
Remarks:	



Test:	Stickler for Rules				@Home
Team name:					
Referee name:					
Maximum tim			10	minutes	
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
	reaking a house rule (indicating the rule by	* * * * * * * * * * * * * * * * * * * *			
take.	ct, politely clarify to the guest what action h				
	guest is following the rule.	$4 \times 200$			
Bonus Rewards Making eye-conta broken.	act, politely clarify to the guest what rule	is being $4 \times 100$			
Regular Penalta Talking to a gues	ies t about a rule they are not breaking	4×-100			
Deus ex Machi	na Penalties				
	the robot towards a guest who is breaking				
	e robot which rule is being broken	4×-100			
Special Penaltic	$es~~ {\it @Bonuses}$	~ 0.0			
Not attending		-500			
Using alternative		$-100 \\ 200$			
Outstanding perfe	ormance	200			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time	${Referee}$		$\overline{Team \ le}$	eader	



$\mathbf{Score}$	Sheet			RoboCup @Home
Test:	Final Dem	onstration — Jury Evalua	tion	@Home
Team nam	ne:			
Referee na	ame:			
Instruction	ns:			
<ol> <li>At the</li> <li>After</li> <li>You n</li> <li>Enter</li> </ol>	demonstration and hay use the space your your name (	strations carefully. Instration you may ask questions, please fill in the below "Remarks:" to take "referee name") on top of "Referee" slot at the botter.	ne evaluation sheet below notes for yourself. the sheet.	V.
Evaluation	n 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				

#### Remarks:

Date $\mathcal{C}$ time	Referee	$Team\ leader$
RoboCup@	Home Forms & Score Sheets / Draft version for Robo	oCup 2025 (Revision 2024-10-28 <sub>-</sub> 1)

<sup>\*</sup> Story telling is to be rewarded

 $Date \ \ \mathcal{U} \ time$ 



Test:	Final Demonstration	on — Executive Committee		@Home
Team na	me:			
Referee r				
<ol> <li>At th</li> <li>After</li> <li>You</li> <li>Ente</li> </ol>	se watch all demonstrations he end of the demonstration r demonstration and question	you may ask questions. ons, please fill in the evaluation demarks:" to take notes for you name") on top of the sheet.		
<ul><li>Cont</li><li>Rele</li></ul>	ntific contribution tribution to @Home vance for @Home / Novelty entation and performance in			
Evaluatio	on 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				

 $Team\ leader$