



# RoboCup@Home

Forms & Score Sheets

Version: 2024 1

Last Build Date: May 3, 2024 Time: 777

2024-04-23

# Registration Form



Team name:			
Team leader name:			
Safety first!			
The speed of the robots shot than the local speed limits. pace of humans (6 kph, 3.7	During operation in an ex		_
At any time when operating immediately if there is a remember of the Technical or team to stop the robot, the	note possibility of dangerour Organizational committee	us behavior towards peoplee, an Executive or Trust	le and/or objects. If a refere tee of the federation tells th
If the team does not compimmediately by a decision members can be banned fr RoboCup Federation Truste	of the RoboCup@Home Tom future competitions for	Technical Committee. Fu	erthermore, the team and i
	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 understhe rules in the official Rob	=	atement and agree to it.	Furthermore, I agree to ob
Date & time	$\frac{}{Team\ leader}$		

RoboCup @Home	)

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
Team	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:

ate & time	Referee	$Team\ leader$

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



Cest:				RC	boCup @Home
leam name:	Carry my Luggage				
Referee name:					
The maximum time	e for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
	ect beg (visualize on screen or say which one)	15			
Picking up the corr	9	100			
Collowing the person	n to the car	300			
voiding the crowd	of people obstructing the path	50			
voiding the small	object on the ground	50			
Avoiding the hard-	to-see object	50			
voiding the area b	blocked with retractable barriers	50			
Bonus rewards					
Re-entering the are	na	100			
oining and staying	in the queue on the way to the arena	300			
Penalties					
Propping the bag		-50			
Deus Ex Machin	$a\ Penalties$				
	perator by natural interaction	-50			
=	perator by unnatural interaction	-100			
=	perator by asking them to come back	-150			
=	perator by direct contact	-200			
$Special\ Penalties$					
Not attending	2 Donweet	-500			
Jsing alternative st	art signal	-100			
Outstanding perfor	_	101			
	intenice	101			
Score per try		1015			
Total Score		1116			
Remarks:					
Score per try Total Score	mance	1015	_		

 $Team\ leader$ 

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



Test:	General Purpose Service Robot			Ro	@Home
Team name:					
Referee name:					
The maximum to	ime for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Executing the ta	ask associated with each command	3×400			
Bonus Reward					
_	command given by a non-expert operator	$3 \times 100$			
Deus Ex Mach					
Using a custom		3×-50			
Bypassing speech	_	$3\times-50$			
centage penalty	aman to perform parts of the task will apply a according to similar penalties in other Stage I				
_	$ies~ {\mathfrak C}~ Bonuses$	700			
Not attending	4 4 4 1	-500			
Using alternative		-100			
Outstanding per	formance	150			
Score per try		1500			
Total Score		1650			
Remarks:					

 $Team\ leader$ 



Test:	Receptionist			RC	@Home
Team name:	:				
Referee nan	ne:				
The maximum	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Navigate to the	he door, when the door bell rings	$2 \times 15$			
Guide the gue	est to the other guests (navigate to the guest group)	$2 \times 100$			
Look in the d	irection of navigation or at the navigation goal	$2 \times 50$			
Introduce a n	ew guest to every other guest	$2 \times 50$			
Offer a free se	eat to the new guest	2×100			
Look at the p		$2 \times 25$			
_	person the robot is introducing the guest to	$2 \times 50$			
	bbot social performance	50			
Bonus Rewe	ards				
Open the enti	rance door for a guest	2×100			
=	first guest to the second guest	150			
Penalties	<u> </u>				
	information was memorized (continue with wrong nam	e –50			
*	ppropriate gaze (away from conversational partner)	-50			
	ze not in the direction of the navigation while moving.	-10			
Deus Ex Mo					
Alternative H		$2\times-75$			
Not recognizing	ng people	$2 \times -200$			
Special Pen	alties & Bonuses				
Not attending		-500			
Outstanding 1		118			
Score per tr	ry	1180			
Total Score		1000			
		1298			
Remarks:					
$\frac{}{\mathit{Date} \mathcal{C}\mathit{time}}$			Team le	eader	



Test:	Serve the Breakfast				@Home
Team name:					
Referee name:					
The maximum ti	me for this test is 5 minutes.				
Action		$\mathbf{Score}$	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Initial navigation	to pick up area	15			
=	and categorizing it correctly (visualize or say)	4×15			
	fast items for transportation to the table	4×50			
	items on the table	4×50			
Pouring cereal in		300			
Bonus Reward					
Pouring milk into		300			
Placing a spoon		100			
Penalties					
	oping an object on the table	4×-30			
Spilling cereal wh		-100			
Spilling milk whi		-100			
Deus Ex Mach	•	100			
Pointing at an ol		$4 \times -5$			
=	ct over to the robot	$4\times-50$			
= -	an object on the table	$4\times-50$			
	g cereal in the bowl	-300			
Special Penalti	_	000			
Not attending	es O Domases	-500			
Using alternative	start sional	-100			
Outstanding perf	_	117			
	OTHER		_ <del></del>		
Score per try		1175			
Total Score		1292			
Remarks:					
Date & time		-	Team le	eader	

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



$\operatorname{Test}$ :	Storing Groceries			Ro	@Home
Team name:	Storing Grocerius				
Referee name:					
The maximum tir	me for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Navigating to the		15			
	and categorizing it correctly	$5 \times 15$			
	ject for transportation to the cabinet	$5 \times 50$			
Perceiving object handled object sh	s in shelf and saying on which layer the curren ould be placed	tly $5 \times 15$			
Placing an object	in the cabinet	$5 \times 15$			
Placing an object	next to similar objects on the cabinet	$5 \times 50$			
Bonus Rewards	3				
Opening the cabi	net door without human help	200			
Picking up a tiny	object	70			
Placing a tiny ob	ject	30			
Picking up a heav	ry object	70			
Placing a heavy of	bject	30			
Penalties					
Storing an object	without categorizing it correctly	$5 \times -60$			
Deus Ex Mach	ina Penalties				
	g an object over to the robot	$5 \times -50$			
A human placing	an object in the cabinet	$5 \times -15$			
A human placing	an object in the cabinet next to similar objects	$5 \times -50$			
	g at a target location	$5 \times -25$			
$Special\ Penaltic$					
Not attending	2000000	-500			
Using alternative	start signal	-100			
Outstanding perfe	_	114			
Score per try		1140			
Total Score		1254			
D amanlırı					
Remarks:					

 $Team\ leader$ 



Test:	Clean the Table			AC	@Home
Team name:					
Referee name:					
The maximum tim	ne for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\frac{Main\ Goal}{}$		20010	1 013	2 013	3 013
Navigate to the ta	ble to pick up items	15			
Picking tableware	(cup, bowl) for transportation to the dishwasher	$2\times40$			
Picking up a plate	for transportation to the dishwasher	50			
Picking up cutlery	(spoon, fork) for transportation to the dishwasher	2×80			
Placing the tablew	vare and cutlery inside the dishwasher	$5 \times 50$			
Placing an item co in the dishwasher	orrectly (cleanable, convenient like a human would)	$5 \times 50$			
Bonus Rewards					
Pulling out the dis	shwasher rack	100			
Pushing in the dis	hwasher rack	100			
Opening the dishw	vasher door	200			
Closing the dishwa	asher door	200			
	hwasher tab for transportation to the dishwasher	100			
Placing the dishwathe tab	asher tab inside the dishwasher's hatch intended for	200			
Deus Ex Machie					
Pointing at an obj	ect or telling the robot where an object is	$5 \times -20$			
Handing an object	over to the robot	$5 \times -70$			
Placing an object		$5 \times -180$			
Special Penaltie	$s \ {\it \& Bonuses}$				
Not attending		-500			
Using alternative s	_	-100			
Outstanding perfo	rmance	170			
Score per try		1705			
Total Score		1875			
Remarks:					
Date & time			Team le	eader	

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



Test:	Enhanced General Purpose Service Ro	obot			@Home
Team name:					
Referee nam	ne:				
The maximum	n time for this test is 10 minutes.				
Action		Score	$1^{st}$ trv	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	rly state an encountered problem	$3 \times 150$			
Solve a proble	m	$3 \times 650$			
Deus Ex Ma	achina Penalties				
Asking for loca	ation of a problem	$3 \times -200$			
_	human to perform parts of the task will a by according to similar penalties in other St				
_	$alties~ {\it \&}~ Bonuses$				
Not attending		-500			
_	ive start signal	-100			
Outstanding p	performance	240			
Score per tr	y	2400			
Total Score		2640			
Remarks:					

 $Team\ leader$ 

 $Date \ \& \ time$ 



Score Si				Ro	boCup
Test:	Restaurant				@Home
Team name:					
Referee name:					
Maximum tim	ne:			15	minutes
Action		Score	$1^{st}$ $\mathbf{try}$	$2^{nd}$ try	$3^{rd}$ try
Regular Rewards					
Detect calling or w		$2 \times 100$			
	s table without prior guidance/training	$2 \times 100$			
Take an order.		$2 \times 300$			
Serve an order.		$2 \times 300$			
Qualitative robot s	ocial performance	50			
Bonus Rewards					
Use an unattached		$2 \times 200$			
Regular Penaltie		0 400			
	ntact when taking an order	$2 \times -100$			
Deus ex Machin Being guided to a t		$2 \times -200$			
	to handover object to the robot	$2\times -200$ $4\times -100$			
_	ake the object from a tray or the robot's hand	4×-100 4×-100			
	where is a table/ $Kitchen$ -bar	$2\times-100$			
Special Penalties	·	2~-100			
Not attending	o C Donases	-500			
Using alternative s	tart signal	-100			
Outstanding perfor		205			
Score per try		2050			-
Total Score		2255			
Remarks:					

 $Team\ leader$ 



Test:	Stickler for Rules			AC	@Home
Team name:					
Referee name:					
Maximum tin	ne:			10	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Rewar		) / / / / / / / / / / / / / / / / / / /			
	breaking a house rule (indicating the rule by voice, politely clarify to the guest what action he sho	* * * * * * * * * * * * * * * * * * * *			
	e guest is following the rule.	4×200			
Bonus Reward	_	·			
Making eye-cont broken.	act, politely clarify to the guest what rule is be	eing 4×100			
	st about a rule they are not breaking	4×-100			
Deus ex Mach					
	the robot towards a guest who is breaking a rule				
	e robot which rule is being broken	4×-100			
Special Penalta Not attending	tes & Bonuses	-500			
Using alternative	e start signal	-100			
Outstanding per		200			
Score per try		2000			
Total Score		2200			
Remarks:					
		_			
Date & time	Referee		Team le	eader	



Test:	Final Demonstration — Jury Evaluation	@Home
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**

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

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

#### Remarks:

	_	
$Date \ \ \ time$	Referee	$Team\ leader$
RoboCun@l	Home Forms & Score Sheets / Final version for Rob	oCup 2024 (Revision 2024-04-23 1)

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



Test:		Final Demonstration	on — Executive Committee		@Home
Team na	me:				
Referee	name:				
Instructi		11 1	C 11		
<ol> <li>At t</li> <li>Afte</li> <li>You</li> <li>Ente</li> </ol>	the end over demon may use er your y	stration and question the space below "Formula to the space to the space of the space of the space of the strategies of the space of th	carefully.  you may ask questions.  ons, please fill in the evaluation Remarks: to take notes for y name) on top of the sheet.  e" slot at the bottom.		
Criteria:	;				
<ul><li>Con</li><li>Rele</li></ul>	tribution evance fo	ntribution n to @Home r @Home / Novelty n and performance in			
Evaluati	on shee	t			
Team	solution	Efficacy of n 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	S:				

 $Team\ leader$