



# RoboCup@Home

Forms & Score Sheets

Version: 2024 1

Last Build Date: May 13, 2024 Time: 726

2024-05-13

# Registration Form



Team name:			
Team leader name:			
Safety first!			
_	. During operation in an ex		robot is not allowed to go faster ans it may not exceed a walking
immediately if there is a remember of the Technical of	mote possibility of dangerou	ns behavior towards per ee, an Executive or Tr	owners have to stop the robot ople and/or objects. If a referee, ustee of the federation tells the stopped <i>immediately</i> .
immediately by a decision	of the RoboCup@Home Trom future competitions for	Cechnical Committee.	from the ongoing competition Furthermore, the team and its nan 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 Ro		atement and agree to	it. Furthermore, I agree to obey
Date & time	$Team\ leader$		

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
1eam	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:

Date & 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	_		

 $Team\ leader$ 

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



$\operatorname{Test}$ :	General Purpose Service Robot			RC	@Hom
Team name:					
Referee nam	ne:				
The maximum	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal			-	-	
Executing the	task associated with each command	$3 \times 400$			
Bonus Rewa	ards				
Understanding	g a command given by a non-expert operator	$3 \times 100$			
Deus Ex Ma	achina Penalties				
Using a custor		$3 \times -50$			
Bypassing spe	ech recognition	$3 \times -50$			
Instructing a	human to perform parts of the task will apply a	per- $3 \times -400$			
centage penalt	ty according to similar penalties in other Stage I to	ests.			
Special Pena	$alties~ {\mathfrak C}~Bonuses$				
Not attending		-500			
Using alternat	ive start signal	-100			
Outstanding p	performance	150			
$Score\ per\ tr$	y	1500			
m. 4 - 1 C		1.050			
Total Score Remarks:		1650			
itemarks.					

 $Team\ leader$ 



Test:	Receptionist			Ro	@Home
Team name:					
Referee nam	ne:				
The maximum	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Guide the gue	st to the other guests (navigate to the guest group)	$2 \times 15$			
Look in the di	rection of navigation or at the navigation goal	$2 \times 50$			
Introduce a ne	ew guest to every other guest and the host	$2 \times 50$			
Offer a free se	at to the new guest	$2 \times 100$			
Look at the pe	erson talking	$2 \times 25$			
Look at the pe	erson the robot is introducing the guest to	$2 \times 50$			
Qualitative ro	bot social performance	50			
Bonus Rewa	ards				
Open the entr	ance door for a guest	2×100			
Describe the f	first guest to the second guest (per corect attribute)	4×30			
Describe the f	first guest to the second guest (per incorrect attribute)	4×-30			
Penalties	,				
Wrong guest i or drink)	nformation was memorized (continue with wrong name	-50			
Persistent inap	ppropriate gaze (away from conversational partner)	-50			
Persistent gaz	e not in the direction of the navigation while moving.	-10			
Deus Ex Ma	achina				
Alternative H	RI	$2\times-75$			
Not recognizing	ng people	$2\times-200$			
Special Pena	$alties \ {\cal E} \ Bonuses$				
Not attending		-500			
Outstanding p	performance	95			
Score per tr	y	950			
Total Score		1045			
Remarks:					
Date & time			${Team\ le}$	eader	



Test:	Serve the Breakfast			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
$\overline{Main~Goal}$					
Initial naviga	tion to pick up area	15			
Perceiving ob	ject and categorizing it correctly (visualize or say)	4×15			
Picking up br	reakfast items for transportation to the table	4×50			
Placing break	fast items on the table	$4 \times 50$			
Pouring cerea	d into the bowl	300			
Bonus Rew	ards				
Pouring milk	into the bowl	300			
Placing a spo	on next to the bowl	100			
Penalties					
Throwing or	dropping an object on the table	4×-30			
Spilling cerea	l while pouring	-100			
Spilling milk	while pouring	-100			
Deus Ex M	achina Penalties				
Pointing at a	n object	$4 \times -5$			
Handing an o	bject over to the robot	$4 \times -50$			
A human place	cing an object on the table	$4 \times -50$			
A human pou	ring cereal in the bowl	-300			
Special Pen	$alties  {\it \& Bonuses}$				
Not attending	r 5	-500			
Using alterna	tive start signal	-100			
Outstanding	performance	117			
Score per tr	ry	1175			
Total Score		1292			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Storing Groceries			Ro	@Home
Team name:					
Referee name:					
The maximum tin	ne for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal				·	· · · · · · · · · · · · · · · · · · ·
Navigating to the		15			
	and categorizing it correctly	$5 \times 15$			
	ect for transportation to the cabinet	$5 \times 50$			
Perceiving object handled object sh	s in shelf and saying on which layer the current 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	r				
Opening the cabin	net door without human help	200			
Picking up a tiny	object	70			
Placing a tiny obj	iect	30			
Picking up a heav	y object	70			
Placing a heavy o	bject	30			
Deus Ex Machi	ina Penalties				
A human handing	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	$5 \times -50$			
A human pointing	g at a target location	$5 \times -25$			
$Special\ Penaltie$	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Outstanding perfe		114			
		· · · · · · · · · · · · · · · · · · ·			
Score per try		1140			
Total Score		1254			
Remarks:					
$Date \ \mathcal{E} \ time$	Referee		Team le	eader	



Test:	Clean the Table				@Ноте
Team name:					
Referee name:					
The maximum t	ime for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	table to pick up items	15			
_	re (cup, bowl) for transportation to the dishwash				
_	te for transportation to the dishwasher	50			
	ry (spoon, fork) for transportation to the dishwa				
	eware and cutlery inside the dishwasher	$5\times50$			
_	-				
in the dishwashe	correctly (cleanable, convenient like a human wer	70u1a) 5×50			
Bonus Reward	ds				
Pulling out the	dishwasher rack	100			
Pushing in the d	lishwasher rack	100			
Opening the disl		200			
Closing the dish		200			
0	lishwasher tab for transportation to the dishwash				
	washer tab inside the dishwasher's hatch intende				
the tab	madici tub indice the dishwadici s nateri intend	200			
Deus Ex Mach	hina Penalties				
Handing tablewa	are over to the robot	2×-40			
Handing plate o	ver to the robot	-50			
Handing cutlery	over to the robot	$2 \times -80$			
Having a human	place an object in the dishwasher	$5 \times -50$			
Special Penalt	ies & Bonuses				
Not attending	20104000	-500			
Using alternative	e start signal	-100			
Outstanding per	_	170			
	Tormance				
Score per try		1705			
Total Score		1875			
Remarks:					
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
$\overline{Main~Goal}$		56616	1 013	2 013	
	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	$3 \times -200$			-
_	nan to perform parts of the task will ccording to similar penalties in other S				
Special Penaltic	es & Bonuses				
Not attending		-500			
Using alternative		-100			
Outstanding perfe	ormance	240			
Score per try		2400			
Total Score		2640			
Remarks:					

 $Team\ leader$ 

 $Date \ \& \ time$ 



Score Si					boCup @Home
Test:	Restaurant				
Team name:					
Referee name:					
Maximum tim	e:			15	minutes
Action		Score	$1^{st} \; \mathbf{try}$	$2^{nd}$ try	$3^{rd}$ try
$\frac{Regular\ Rewards}{}$	· · · · · · · · · · · · · · · · · · ·	beore	1 try	2 ti y	5 try
Detect calling or wa		$2 \times 100$			
	table without prior guidance/training	2×100			
Take an order.	1 0 /	2×300			
Serve an order.		2×300			
Qualitative robot so Bonus Rewards	ocial performance	50			
Use an unattached Regular Penaltie		2×200			
	ntact when taking an order	2×-100			
Being guided to a t	able	$2 \times -200$			
Asking the Barman	to handover object to the robot	$4 \times -50$			
Guest needing to ta	ake the object from a tray or the robot's hand	$4 \times -50$			
Being told/pointed $Special\ Penalties$	where is a table $/$ $Kitchen$ -bar	2×-100			
Not attending		-500			
Using alternative st		-100			
Outstanding perfor	mance	205			
Score per try		2050			
Total Score		2255			
Remarks:					

 $Team\ leader$ 



Test:			@Ноте		
Team name:					
Referee name:					
Maximum tim	<b>e</b> :			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	$es~~ {\it E}~~ Bonuses$				
Not attending		-500			
Using alternative		-100			
Outstanding perfe	ormance	200			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time	Referee		Team le	eader	



$\Gamma\!\mathrm{est}$ :	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	$\overline{Referee}$	Team leader
RoboCup@F	ome Forms & Score Sheets / Final version for Robo	oCup 2024 (Revision 2024-05-13_1)

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



Test:		Final Demonstration	on — Executive Committee		@Home
Team na	ame:				
Referee	name:				
Instruct	ions:				
		n all demonstrations	=		
			you may ask questions.		
		_	ons, please fill in the evaluation		
	_	_	Remarks:" to take notes for y name") on top of the sheet.	oursen.	
		•	e" slot at the bottom.		
0		G			
Criteria	:				
• Scie	entific con	ntribution			
• Cor	ntribution	n to @Home			
		or @Home / Novelty			
• Pre	sentation	and performance in	the finals		
Evaluati	ion shee	t			
		Efficacy of	Elegance of	Innovation/contribution	Difficulty/Success of
Team	solution	n to main objective	solution to main objective	of additional tasks	overall demonstratio
		(0-10)	(0-10)	(0-10)	(0-10)
Fifth					
Fourth					
Third					
Second First					
FIISU					
D 1					
Remark	S:				

 $Team\ leader$