



# RoboCup@Home

Forms & Score Sheets

Version: 2024 1

Last Build Date: May 3, 2024 Time: 951 2024-05-03

# Registration Form



Team name:			
Team leader name:			
Safety first!			
_	. During operation in an en		cobot 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 pec ee, an Executive or Tru	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 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 Ro		atement and agree to i	t. Furthermore, I agree to obey
Date & time	$\overline{Team\ leader}$		

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	$Team\ leader$



Test:	Carry my Luggage			Ro	@Home
Team name:					
Referee name:	-				
The maximum ti	me for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Perceiving the co	errect beg (visualize on screen or say which one)	15			
Picking up the co	orrect bag	100			
Following the per	rson to the car	300			
Avoiding the cro	wd of people obstructing the path	50			
Avoiding the sma	all object on the ground	50			
Avoiding the har	d-to-see object	50			
Avoiding the are	a blocked with retractable barriers	50			
$Bonus\ rewards$	r				
Re-entering the a	arena	100			
Joining and stay	ing in the queue on the way to the arena	300			
Penalties					
Dropping the bag	r S	-50			
Deus Ex Mach	ina Penalties				
Rediscovering the	e operator by natural interaction	-50			
Rediscovering the	e operator by unnatural interaction	-100			
Rediscovering the	e operator by asking them to come back	-150			
Rediscovering the	e operator by direct contact	-200			
Special Penalti	ies & Bonuses				
Not attending		-500			
Using alternative	start signal	-100			
Outstanding perf	formance	101			
Score per try		1015			
Total Score		1116			
Remarks:					
Date & time	Referee		Team le	ador.	
Duic & tille	пејетее		ream te	cuuci	

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



$\operatorname{Test}$ :	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		1050			
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	$alties~ {\it \& Bonuses}$				
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				@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	

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



Test: S	toring Groceries			Ro	@Home
Team name: _					
Referee name: _					
Γhe maximum time	for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Navigating to the ta	able	15			
	nd categorizing it correctly	5×15			
	t for transportation to the cabinet	$5 \times 50$			
- ·	in shelf and saying on which layer the curren	ntly $5 \times 15$			
Placing an object in	the cabinet	$5 \times 15$			
Placing an object ne	ext to similar objects on the cabinet	$5 \times 50$			
Bonus Rewards					
Opening the cabinet	door without human help	200			
Picking up a tiny ol	oject	70			
Placing a tiny object	$\mathbf{t}$	30			
Picking up a heavy		70			
Placing a heavy obj		30			
Penalties					
	ithout categorizing it correctly	$5 \times -60$			
Deus Ex Machine					
	n object over to the robot	$5 \times -50$			
	object in the cabinet	$5 \times -15$			
	object in the cabinet next to similar objects	$5\times-50$			
A human pointing a	-	$5 \times -25$			
$Special \ Penalties$		٥٨ ٥٥			
Not attending	Donuses	-500			
Using alternative sta	art sional	-100			
Outstanding perform	9	114			
Score per try		1140			
Total Score		1254			
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 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:					

 $Team\ leader$ 



				Ro	boCup @Home
Test:	Restaurant				@Home
Team name:					
Referee name:					
Maximum tir	me:			15	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Regular\ Reward}$					
Detect calling or v		2×100			
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			
$Bonus\ Rewards$					
Use an unattached	d tray to transport	$2 \times 200$			
$Regular\ Penalti$	les				
	ontact when taking an order	$2 \times -100$			
Deus ex Machin					
Being guided to a		$2\times-200$			
	an 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	d where is a table $/$ $Kitchen$ -bar	$2 \times -100$			
$Special\ Penaltie$	$es  {\it \& Bonuses}$				
Not attending		-500			
Using alternative	start signal	-100			
Outstanding perfo	ormance	205			
Score per try		2050			
Total Score		2255			
Remarks:					
Date & time	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		Team le	ader	

 $Team\ leader$ 



Test: Stickler for Rules  Team name:					@Ноте
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	



Test:	Final Demonstration — Jury Evaluation	@Home
Team name:		
Referee name:	<del>,</del>	

#### **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	- $Referee$	$Team\ leader$
RohoCun@F	Iome Forms & Score Sheets / Final version for Robe	oCup 2024 (Revision 2024-05-03 1)

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



Test:		Final Demonstration	on — Executive Committee		@Home
Team na	me:				
Referee	name:				
Instructi	ions:				
<ol> <li>At t</li> <li>Afte</li> <li>You</li> <li>Ente</li> </ol>	he end over demons may use er your y	stration and questice the space below "Four name ("referee	carefully.  you may ask questions.  ons, please fill in the evaluation Remarks:" to take notes for youname") on top of the sheet.  e" slot at the bottom.		
Criteria:					
<ul><li>Con</li><li>Rele</li></ul>	tribution evance for	ntribution to @Home r @Home / Novelty and performance in			
Evaluatio	on sheet	t			
Team		Efficacy of to main objective (0-10)	Elegance of solution to main objective (0-10)	Innovation/contribution of additional tasks (0-10)	Difficulty/Success of overall demonstratio (0-10)
Fifth		,			
Fourth					
Third					
Second First					
Remarks	s:				

 $Team\ leader$