



# RoboCup@Home

Forms & Score Sheets

Version: 2024 1

Last Build Date: July 2, 2024 Time: 522 2024-07-02

# Registration Form



Team name:			
Team leader name:			
Safety first!			
_	During operation in an er		robot is not allowed to go faster ans it may not exceed a walking
immediately if there is a rer	note possibility of dangerou r Organizational committe	s behavior towards pe e, 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 T com future competitions for	echnical 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 Rob		atement and agree to	it. Furthermore, I agree to obey
Date & time	$\overline{Team\ leader}$		

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

T	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:

Pate & time	$\overline{Referee}$	$Team\ leader$

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



Test:	Carry my Luggage			Ro	@Home
Team name:					
Referee name:					
The maximum tir	me for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Perceiving the con	rrect beg (visualize on screen or say which one)	15			
Picking up the co		100			
Following the per	son to the car	300			
Avoiding the crov	vd of people obstructing the path	50			
Avoiding the sma	ll object on the ground	50			
Avoiding the hard	l-to-see object	50			
Avoiding the area	blocked with retractable barriers	50			
Bonus rewards					
Re-entering the a	rena	100			
Joining and staying	ng in the queue on the way to the arena	300			
Penalties					
Dropping the bag		-50			
Deus Ex Mach	ina Penalties				
	operator by natural interaction	-50			
=	operator by unnatural interaction	-100			
_	operator by asking them to come back	-150			
_	operator by direct contact	-200			
$Special\ Penalti$					
Not attending	Se C Bonacce	-500			
Using alternative	start signal	-100			
Outstanding perfe		101			
	of manoc				
Score per try		1015			
Total Score		1116			
Remarks:					
Total Score Remarks:		1110			

 $Team\ leader$ 

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



$\operatorname{Test}$ :	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			
TD: 4 - 1 C		1050			
Total Score Remarks:		1650			
itemarks.					

 $Team\ leader$ 



T4.	Description			RC	boCup @Home
Test:	Receptionist				
Team name:					
Referee name:					
The maximum tin	ne for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Guide the guest to	the other guests (navigate to the guest group)	$2 \times 15$			
Look in the direct	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 person	n the robot is introducing the guest to	$2 \times 50$			
=	social performance	50			
Bonus Rewards	•				
Open the entrance		2×100			
=	guest to the second guest (per corect attribute)	4×30			
	guest to the second guest (per incorrect attribute)	4×-30			
Penalties	O	,			
	mation was memorized (continue with wrong name	-50			
,	priate gaze (away from conversational partner)	-50			
= =	t in the direction of the navigation while moving.	-10			
Deus Ex Machi					
Alternative HRI		$2\times-75$			
Not recognizing p	eople	$2\times-200$			
Special Penaltie	-	,			
Not attending	S C Donases	-500			
Outstanding perfo	ormance	95			
	A TANKATACO				
Score per try		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 ob		$4 \times -5$			
=	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	



Test:	Storing Groceries				@Home
Team name:					
Referee name:					
The maximum tir	ne for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Navigating to the	table	15			
Perceiving object	and categorizing it correctly	$5 \times 15$			
Picking up an obj	ect for transportation to the cabinet	$5 \times 50$			
Perceiving objects	s in shelf and saying on which layer the current	tly $5 \times 15$			
handled object sh	ould be placed				
Placing an object	in the cabinet	$5 \times 15$			
Placing an object	next to similar objects on the cabinet	$5 \times 50$			
Bonus Rewards					
Opening the cabin	net door without human help	200			
Picking up a tiny	object	70			
Placing a tiny obj	fect	30			
Picking up a heav	y object	70			
Placing a heavy o	bject	30			
Deus Ex Machi	ina Penalties				
A human handing	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			
Caama man tmu		1110			
Score per try		1140			
Total Score		1254			
Remarks:					
Date & time			Team le	oader	
Date & time	nejeree		леин и	cuuci	



Test:	Clean the Table			AC	@Home
Team name:					
Referee name	e:				
The maximum	time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$		20010	1 013	_ = == 3	3 013
	e table to pick up items	15			
=	rare (cup, bowl) for transportation to the dishwasher	2×40			
=	late for transportation to the dishwasher	50			
	lery (spoon, fork) for transportation to the dishwasher	$2 \times 80$			
Placing the tal	bleware and cutlery inside the dishwasher	$5 \times 50$			
Placing an iter in the dishwasl	m correctly (cleanable, convenient like a human would her	) 5×50			
Bonus Rewa	rds				
Pulling out the	e dishwasher rack	100			
Pushing in the	dishwasher rack	100			
Opening the di	ishwasher door	200			
Closing the dis	shwasher door	200			
Picking up the	dishwasher tab for transportation to the dishwasher	100			
Placing the disthet tab	shwasher tab inside the dishwasher's hatch intended fo	r <i>200</i>			
$Deus\ Ex\ Ma$	china Penalties				
=	ware over to the robot	$2\times-40$			
	over to the robot	-50			
	ry over to the robot	$2\times-80$			
Having a huma	an place an object in the dishwasher	$5 \times -50$			
Special Pena	$lties~ {\it \& Bonuses}$				
Not attending		-500			
Using alternati		-100			
Outstanding p	erformance	170			
Score per try	J.	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:					

 $Team\ leader$ 



Maximum time:					Ro	bo Cup @Home
Maximum time:   15 minutes   15 minutes	Test:	Restaurant				
Maximum time:   Score   12th try   2vd try   3vd try	Team name:					
Action         Score         1et try         2nd try         3rd try           Regular Rewards         —	Referee name:					
Regular Rewards	Maximum tim	ne:			15	minutes
Regular Rewards	Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}  ext{ try}$
Reach a customer's table without prior guidance/training						
Take an order.						
Serve an order.   2×300		s table without prior guidance/training				
Qualitative robot social performance         50           Bonus Rewards         30           Use an unstatched tray to transport         2×200           Regular Penalties         3x-100           Not making eye-contact when taking an order         2x-100           Deus ex Machina Penalties         3x-200           Being guided to a table         2x-200           Asking the Barman to handover object to the robot         4x-50           Guest needing to take the object from a tray or the robot's hand         4x-50           Being told/pointed where is a table/ Kitchen-bar         2x-100           Special Penalties & Bonuses         -500           Not attending         -500           Using alternative start signal         -100           Outstanding performance         205           Score per try         2050           Total Score         2255           Remarks:						
Use an unattached tray to transport						
Use an unattached tray to transport		social performance	50			
Regular Penalties Not making eye-contact when taking an order 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 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  Remarks:			9 900			
Not making eye-contact when taking an order         2x-100			2×200			
Being guided to a table Asking the Barman to handover object to the robot Asking the Barman to handower object to the robot Asking the Barman to handower object to the robot Asking the Asking	_		9× 100			
Being guided to a table       2x−200			2×-100			
Asking the Barman to handover object to the robot $4\times-50$			2×-200			
Guest needing to take the object from a tray or the robot's hand  Being told/pointed where is a table/Kitchen-bar  Special Penalties & Bonuses  Not attending  Using alternative start signal  Outstanding performance  Score per try  Total Score  Remarks:						
Being told/pointed where is a table/Kitchen-bar	_		· · · · · · · · · · · · · · · · · · ·			
Special Penalties & Bonuses Not attending -5005			•			
Not attending         -500		·				
Outstanding performance         205	Not attending		-500			
Score per try 2050	Using alternative s	tart signal	-100			
Total Score 2255  Remarks:	Outstanding perfor	rmance	205			
Remarks:	Score per try		2050			
	Total Score		2255			
Date 81 time Referee Team leader	Remarks:					
Date 65 time Referee Team leader						
Date & time Referee Team leader						
Date & time  Referee  Team leader						
Date & time  Referce  Team leader						
Date 65 time  Referce  Team leader						
Date 65 time  Referce  Team leader						
Date 65 time  Referce  Team leader						
Date 65 time  Referee  Team leader						
Date 64 time  Referee  Team leader						
Date 65 time  Referee  Team leader						
THIS INTEREST TOWN TOWN TOWN TO THE PROPERTY OF THE PROPERTY O	Data 60 time	Datama		Toom 1-	ador	

 $Team\ leader$ 



Test:	Stickler for Rules			AC	@Home
Team name:					
Referee name:					
Maximum tin		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	



,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RoboCup @Home
Test:	Final Demonstration — Jury Evaluation	enome.
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
Daha Cur AU	ome Forms & Score Sheets / Final version for Rob	aCur 2024 (Basisian 2024 07 02 1)

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



Test:		Final Demonstration	on — Executive Committee		@Home
Team na	ame:				
Referee					
${f Instruct}$	ions:				
<ol> <li>At</li> <li>Aft</li> <li>You</li> <li>Ent</li> </ol>	the end o er demon 1 may use ter your y	stration and questice the space below "Four name ("referee	carefully. you may ask questions. ons, please fill in the evaluation temarks:" to take notes for y name") on top of the sheet. e" slot at the bottom.		
Criteria	•				
<ul><li>Scie</li><li>Cor</li><li>Rel</li></ul>	entific con atribution evance for	ntribution to @Home r @Home / Novelty and performance in			
Evaluati	ion shee	t			
Team		Efficacy of a 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					
Remark	s:				

 $Team\ leader$