



# RoboCup@Home

Forms & Score Sheets

Version: 2024 0

Last Build Date: October 23, 2023 Time: 859

# Registration Form



Team name:			
Team leader name: _			
Safety first!			
_	s. 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	mote possibility of dangerou	us behavior towards pece, 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)			<del> </del>
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 unde the rules in the official Ro		atement and agree to i	it. Furthermore, I agree to obey
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	- $        -$		

RoboCup @Home
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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:

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



TD				RC	boCup @Home
Test:	Carry my Luggage				
Team name:					
Referee name:					
The maximum tin	me for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Picking up the co	errect bag	100			
Following the per		300			
Avoiding the crov	vd of people obstructing the path	50			
Avoiding the sma	all object on the ground	50			
Avoiding the hard	d-to-see object	50			
Avoiding the area	a blocked with retractable barriers	50			
$Bonus\ rewards$					
Re-entering the a		100			
Joining and stayi	ng in the queue on the way to the arena	300			
$Regular\ Penalt$	ies				
Dropping the bag		-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 direct contact	-200			
$Special\ Penalti$	$es  {\it \& Bonuses}$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		1000			
Total Score		1100			
Remarks:					
				•	
Date & time	Referee		Team le	eader	



Test:	Clean Up			Ro	@Home
Team name:	•				
Referee nam	e:				
3.6				-	. ,
Maximum t	time:			5 1	ninutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Rewa	ards at the appropriate location	6×100			
Bonus Rewar		0 × 100			
Moving a tiny of		200			
Moving a heavy		200			
Regular Pena					
	at the wrong location	$6 \times -50$			
	hina Penalties				
Physically inter	acting with object	$6 \times -60$			
Guiding the rob	oot near an object to be moved	6×-40			
Telling where a	n object can be found	$6 \times -30$			
_	hich category an object is or where to place it	$6 \times -30$			
Pointing out ob	ject to be moved	$6 \times -20$			
	$ties  {\it ear E}  Bonuses$				
Not attending		-500			
Using alternativ	ve start signal	-100			
Score per try		1000			
Total Score		1100			
Remarks:					
Date & time			Team le	ader	



Test:	Farewell			RC	@Home
Team name	e:				
Referee nai	me:				
The maximu	m time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
	uccessfully guided to thier cab	$2 \times 200$			
	he medical doctor	200			
Bonus rewe					
Delivering th	9	2×100			
	guest with conversation while ushering pe	rson to the cab $2 \times 100$			
Deus Ex M	lachina ot which guest is leaving	$2 \times -30$			
	robot to the cab	$2 \times -30$ $2 \times -120$			
=	robot to the cab robot back to the house	$2 \times 120$ $2 \times -120$			
_	hich person is a medical doctor	-200			
Handover the	<del>-</del>	$2\times-100$			
	nalties & Bonuses				
Not attendin		-500			
Using alterna	ative start signal	-100			
$Score\ per\ t$	ry	1000			
Total Score	)	1100			
Remarks:					
Date & time			Team le	eader	



Test:	Find my Mates			RC	фоСир <sup>®</sup> Ноте
Team name:	-				
Referee nam					
The maximum	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Report a gues		2×100			
	on unique feature	$2 \times 50$			
Provide descri	ption of a guest	$2 \times 150$			
Bonus rewa					
•	d guest location	150			
Provide descri	ption of a 3rd guest	250			
Deus Ex Mo					
	wave the robot in order to be found	$2\times-75$			
	tell the robot where he/she is sitting/standing				
	approach the robot (e.g. walk and stand in fro	ont of it) $2 \times -150$			
_	$alties~ {\it \& Bonuses}$				
Not attending		-500			
Using alternat	ive start signal	-100			
$Score\ per\ tr$	y	1000			
Total Score		1100			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	

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



Test:	General Purpose Service Robot			Ro	@Hom
Team name:	-				
Referee nan	ne:				
The maximun	a time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Executing the	task associated with each command	$3 \times 400$			
$Bonus\ Rewood$					
	g a command given by a non-expert operator	3×100			
	achina Penalties				
Using a custor	_				
	eech recognition				
_	human to perform parts of the task will apply a ty according to similar penalties in other Stage I to				
_	$alties  \mathcal{E}  Bonuses$				
Not attending		-500			
Using alternat	tive start signal	-100			
$Score\ per\ tr$	y	1500			
Total Score Remarks:		1650			

 $Team\ leader$ 

Referee



Test:	Receptionist			RC	@Home
Team name:					
Referee nam	ne:				
The maximun	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ trv	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$			1 013		0 013
	ew guest to every other guest and offer a seat	$2 \times 250$			
Look at the p		50			
Look at the p	erson the robot is introducing the guest to	50			
Look in the d	rection of navigation	50			
Continue with	wrong name or drink	$2 \times -50$			
Persistent ina	ppropriate gaze - away from conversational partner	$2 \times -50$			
Persistent gaz	e not in the direction of the navigation while moving	-50			
Bonus Rewo	ards				
=	ance door for a guest	$2 \times 100$			
	first guest to the second guest	150			
Deus Ex Mo					
Alternative H		2×-75			
Not recognizing		$2\times-200$			
_	$alties \ {\it @Bonuses}$	500			
Not attending		-500			
Score per tr	y	1000			
Total Score		1100			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Serving Drinks			Ro	@Home
Team name:					
Referee name	e:				
The maximum	time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Approaching g	uest without a drink and take order	$3 \times 50$			
Picking up cor	rect drink from the bar	$3 \times 80$			
Delivering a dr	ink to the right person	$3 \times 70$			
Bonus rewar	ds				
Informing a gu	est of drink unavailability upon request	200			
Correcting the	bartender	$2 \times 100$			
Regular Pene	alties				
Approaching g	uest with a drink and take order (per wrong guest)	-50			
Approaching the	he host to take an order	-50			
Deus Ex Ma	china Penalties				
Guest waves to	the robot to place order	$3 \times -30$			
Guest approach	hes the robot to place order	$3 \times -50$			
Drink handed	over to the robot (bypass picking)	$3 \times -30$			
Drink taken by	a guest (bypass drink handover)	$3 \times -30$			
Special Pena	$lties \ {\it \& Bonuses}$				
Not attending		-500			
Using alternati	ve start signal	-100			
Score per try	,	1000			
Total Score		1100			
Remarks:					
$Date \ \mathcal{E} \ time$	Referee		Team le	eader	



Test:	Serve the Breakfast				@Ноте
Team name:					
Referee name	<b>:</b>				
The maximum	time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Picking up brea	akfast items for transportation to the table	$4 \times 15$			
Placing breakfa	ast items on the table	$4 \times 60$			
Pouring cereal	into the bowl	300			
Bonus Rewar	rds				
Pouring milk in	nto the bowl	300			
Placing a spoor	n next to the bowl	100			
Regular Pena	alties				
Throwing or dr	copping an object on the table	4×-30			
Spilling cereal		-100			
Spilling milk w	hile pouring	-150			
	china Penalties				
Pointing at an	-	$4 \times -5$			
	ject over to the robot	$4 \times -15$			
_	ng an object on the table	4×-60			
_	ing cereal in the bowl	-300			
-	$lties \ {\it @Bonuses}$				
Not attending		-500			
Using alternation	ve start signal	-100			
Score per try		1000			
Total Score		1100			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Storing Groceries			Ro	@Home
Team name	:				
Referee nar					
The maximum	m time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	n object for transportation to the cabinet	5×30			
_	oject next to similar objects on the cabinet	$5 \times 90$			
Bonus Rew		200			
	cabinet door without human help blacing a tiny object	200			
	placing a heavy object	100 100			
Regular Per		100			
•	entities bject without categorizing it correctly	$5 \times -60$			
	achina Penalties				
	nding an object over to the robot	$5 \times -30$			
A human pla	cing an object in the cabinet	$5 \times -90$			
A human place by the robot	cing an object in the cabinet at a location clearly in	$\operatorname{adicated} 5 \times -30$			
A human poi	nting at a target location	$5 \times -45$			
Special Pen	$alties~ {\it \&}~ Bonuses$				
Not attending	_	-500			
Using alterna	tive start signal	-100			
Score per tr	ry	1000			
Total Score		1100			
Remarks:					
Data 61 time	$D_{\alpha}I_{\alpha}$		To 2000 1	and on	
Date & time	Referee		Team le	гииет	



Test:	Take out Garbag	e			AC	@Home
Team name:						
Referee nam	e:					
Maximum t	ime:				5 1	ninutes
Waxiiiaii (					0.1	middes
Action			Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Rewa			2×300			
Bonus Reward	de the designated zone		2×300			
Opening the bir			2×100			
Carry both bags			200			
Regular Pena			200			
	side collection zone		2×-100			
Tipping a bin /			$2\times-50$			
	hina Penalties					
Receiving the ba	ag via handover		$2 \times -250$			
	$ties  \mathcal{C}  Bonuses$					
Not attending			-500			
Using alternativ	ve start signal		-100			
Score per try			1000			
Total Score			1100			
Remarks:						
Date & time		$\overline{Referee}$		Team le	ader	



Test:	Clean the Table			Ro	@Home
Team name:					
Referee nan	ne:				
The maximum	a time for this test is 10 minutes.				
Action		Score	$1^{st}$ $\mathbf{trv}$	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Picking tables	ware and cutlery for transportation to the dishwasher	$5 \times 60$			
Placing the ta	ableware and cutlery inside the dishwasher	$5 \times 180$			
Bonus Rewo	ards				
Opening the o	lishwasher door	200			
Pulling out th	ne dishwasher rack	100			
_	m correctly in the dishwasher	$5 \times 40$			
Placing the di the tab	shwasher tab inside the dishwasher's hatch intended	for 300			
	achina Penalties				
_	object or telling the robot where an object is	$5 \times -20$			
_	bject over to the robot	$5 \times -60$			
Placing an ob		$5 \times -180$			
-	$alties  {\it U}  Bonuses$	<b>~</b> 00			
Not attending		-500			
Using alternat	tive start signal	-100			
Score per tr	y	2000			
Total Score		2200			
Remarks:					
Date & time	$\overline{Referee}$	_	Team le	eader	



Test:	Enhanced General Purpose Service Robot			AC	@Home
Team name:					
Referee name:					
The maximum tir	ne for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$	k associated with each command	3×800			
Bonus rewards Understanding a	command given by a non-expert operator	3×200			
Deus Ex Macha					
Using a custom of	_	3×-100			
_	recognition nan to perform parts of the task will apply ccording to similar penalties in other Stage II	_			
$Special\ Penaltic$	$es~~ {\it E}~~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		3000			
Total Score		3300			
Remarks:					
Date & time	Referee		Team le	eader	

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



Test:	Find my Disk			Ro	@Home
Team name	e:				
Referee na	me:				
The maximu	m time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal		200			
Provide an a Desired disk	ccurate description of the desired disk	600 600			
Bonus rew		000			
	or to find a second disk	800			
	$nalties~ {\it \& Bonuses}$				
Not attendin		-500			
Using alterna	ative start signal	-100			
Score per t	ry	2000			
Total Score	2	2200			
Remarks:					
remarks.					

 $Team\ leader$ 

Referee



Test:	Hand me That				@Home
Team name:					
Referee name:					
The maximum ti	me for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Correctly determ	ine each item	5×400			
Correctly determ	ine an item on the second attempt	$5 \times -150$			
Correctly determ	ine an item on the third or fourth attempt	$5 \times -300$			
Correctly determ	ine an item on a subsequent attempt	$5 \times -400$			
Asking 1 clarifying	ng question	$5 \times -100$			
Asking 2 clarifying	ng questions	$5 \times -200$			
Asking 3 or more	e clarifying questions	$5 \times -350$			
Deus ex Mach	ina Penalties				
Being told the na	ame of the object	5×-400			

-500

-100

2000

2200

Remarks:

Not attending

Score per try

**Total Score** 

Special Penalties & Bonuses

Using alternative start signal



Test:	Set the Table				AC.	@Home
Team name:						
Referee name	e:					
The maximum	time for this test is 10 mir	nutes.				
Action			$\mathbf{Score}$	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$						
	er or cupboard door		100			
Pick up plate a			$2 \times 50$			
Pick up knife, s	spoon, and fork		$3 \times 150$			
Pick up napkin	l		50			
Correctly place	e each item		$5 \times 100$			
Pointing at obj	lect		$5 \times -25$			
Pointing at des	etination		$5 \times -50$			
Bonus rewar	ds					
Layplace mat b	pefore objects		500			
Placing all obje	ects correctly		250			
Closing the doc	or or drawer		50			
Special Pena	$lties \ {\it \&Bonuses}$					
Not attending			-500			
Using alternati	ve start signal		-100			
Score per try			2000			
Total Score			2200			
Remarks:						
Date & time		leferee		Team le	eader	



Test:	Restaurant			Ro	@Home
	Tossadrans				
Team name:					
Referee name	e:				
Maximum t	ime:			15	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Rewa	rds				
Detect calling or	r waving customer	$2 \times 100$			
Reach a custome	er's table without prior guidance/training	$2 \times 100$			
Take and serve a	an order.	$2 \times 600$			
Bonus Reward					
	ed tray to transport	$2 \times 200$			
Regular Penal		2 400			
	contact when taking an order	$2 \times -100$			
Deus ex Mach		0000			
Being guided to		2×-200			
_	nan to handover object to the robot	4×-100			
	o take the object from a tray or the robot's hand	<i>4</i> ×− <i>100</i> <i>2</i> ×− <i>100</i>			
- , -	ted where is a table/Kitchen-bar ties & Bonuses	2×-100			
Not attending	nes & Bonuses	-500			
Using alternativ	e start signal	-300 -100			
Score per try		2000			
Total Score		2200			
Remarks:					
				,	
Date & time	Referee		Team le	ader	



Test:	Smoothie Chef				@Home
Team name	<b>:</b>				
Referee nar	me:				
The maximu	m time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	aree fruits in the blender	$3 \times 200$			
_	aspoon of sugar in the blender	300			
=	in the blender	300			
Bonus Rew					
	r in the blender without spilling	400			
	in the blender without spilling	400			
Regular Pe		,			
-	correct fruit into the blender	$3 \times -200$			
_	Tachina Penalties				
	test in front of the kitchen counter	-150			
	object over to the robot	-200			
_	bbot which ingredient comes next	-250			
Using a custo		-250			
_	nalties & Bonuses				
Not attendin		-500			
	ative start signal	-100			
Score per to	ry	2000			
Total Score		2200			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Stickler for Rules			RC	@Home
Team name:					
Referee nam	e:				
Maximum t	zime:			10	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Rew Identify a gues log).	pards st breaking a house rule (indicating the rule by voice of	or 4×100			
*	ntact, politely clarify to the guest what action he shoul	ld 4×100			
Confirm that t	the guest is following the rule.	4×200			
Bonus Rewa Making eye-co broken.	ards ontact, politely clarify to the guest what rule is being	ng 4×100			
	uest about a rule they are not breaking	4×-100			
	china Penalties	/v 50			
	ets the robot towards a guest who is breaking a rule the robot which rule is being broken	<i>4</i> ×− <i>50 4</i> ×− <i>100</i>			
	$alties~ {\it \& Bonuses}$	.,			
Not attending		-500			
Using alternat	ive start signal	-100			
Score per try	y	2000			
Total Score		2200			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Where is this			AC	@Home
Team name:					
Referee name:					
The maximum ti	me for this test is 10 minutes.				
Action		$\mathbf{Score}$	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Describing and sl	now the requested location accurately	$3 \times 100$			
Monitoring opera	tor's navigation, intervening when necessary	$3 \times 200$			
Describing the ar	eas of the Arena traversed during navigation	$3 \times 100$			
$Bonus\ rewards$					
Leading non-expe	_	$3 \times 100$			
Giving instructio tions	ns to returning operator based on previous instr	ruc- <i>300</i>			
Natural interaction	on while guiding	200			
Deus Ex Mach	ina Penalties				
Bypassing speech	recognition	$3 \times -50$			
Helping the robo	t find the operator	$3 \times -150$			
Special Penalti	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Remarks:					
D-4- 67 11	n /	_		1 .	
Date $\&$ time	Referee		Team le	eaaer	



_	Final Dem	onstration — Jury Evaluat	tion	RoboC
Feam nam	e:			
Referee na	me:			
Instruction	ıs:			
1. Please	watch all demons	strations carefully.		
		nstration you may ask ques		
		d questions, please fill in th		V.
	-	below "Remarks:" to take "referee name") on top of		
	,	"Referee" slot at the botte		
01 10-0-2				
Evaluation	sheet			
_	Originality and	Relevance/usefulness to	Elegance of	Success of
Team	presentation*	everyday life	overall demonstration	overall demonstration
T: 6:1	(0-10)	(0-10)	(0-10)	(0-10)
Fifth Fourth				
Third				
Second First				

Referee $Date \ \ \mathcal{U} \ time$  $Team\ leader$ 

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



Test:	Final Demonst	ration — Executive Committee		Robo Cup @Home
Team na	me:			
Referee :	name:			
<ol> <li>At t</li> <li>Afte</li> <li>You</li> </ol>	ase watch all demonstrated end of the demonstrated end quantum and quantum may use the space below	ions carefully.  ation you may ask questions.  estions, please fill in the evalua  w "Remarks:" to take notes for  eree name") on top of the sheet	yourself.	
<ul><li>6. Sign</li><li>Criteria:</li><li>Scie</li><li>Con</li><li>Rele</li></ul>	the form using the "Re	eferee" slot at the bottom.		
Evaluatio	on sheet			
Team	Efficacy of solution to main object (0-10)	Elegance of solution to main objective (0-10)	Innovation/contribution e of additional tasks (0-10)	Difficulty/Success of overall demonstratio (0-10)
Fifth	, ,			
Fourth Third				
Second				
First				
Remarks	S:			

Referee

 $Team\ leader$