



# RoboCup@Home

Forms & Score Sheets

Version: 2023 0

Last Build Date: May 2, 2023 Time: 1237

# Registration Form



Team name:			
Team leader name:			
Safety first!			
_	. During operation in an ex		oot is not allowed to go faster it may not exceed a walking
immediately if there is a ren	mote possibility of dangerou or Organizational committe	us behavior towards peoplee, an Executive or Trust	wners have to stop the robot e and/or objects. If a referee, see of the federation tells the opped <i>immediately</i> .
immediately by a decision	of the RoboCup@Home Trom future competitions for	Technical Committee. Fu	om the ongoing competition arthermore, the team and its a 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	$Team\ leader$		

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:

$\overline{\textit{Date $\mathcal{G}$ time}}$	Referee	Team leader



Test:	Carry my Luggage				@Home
Team name:					
Referee name:					
The maximum t	ime for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Picking up the c	orrect had	100			
Following the pe		300			
	owd of people obstructing the path	500			
_	all object on the ground	50 50			
Avoiding the hai		50 50			
_	ea blocked with retractable barriers	50			
Bonus rewards	S				
Re-entering the		100			
=	ing in the queue on the way to the arena	300			
Regular Penal	ties				
Dropping the ba	g	50			
Deus Ex Mach					
Rediscovering th	e operator by natural interaction	-50			
	e operator by unnatural interaction	-100			
Rediscovering th	e operator by direct contact	-200			
-	ies & Bonuses				
Not attending		-500			
Using alternative	e start signal	-100			
Score per try		1050			
Total Score		1155			
Remarks:					
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{Referee}$		Team le	eader	



Test:	Clean Up				@Home
Team name:					
Referee name:					
Maximum tir	me:			5 r	ninutes
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Regular Reward Place an object at	ds the appropriate location	6×100			
Bonus Rewards					
Moving a tiny obj Moving a heavy o		200 200			
Regular Penalti Place an object at	es the wrong location	6×-50			
Deus ex Machi					
Physically interac		6×-60			
	near an object to be moved object can be found	$6 \times -40$ $6 \times -30$			
	th category an object is or where to place				
Pointing out object		$6 \times -20$			
Special Penaltie	$es~ {\cal B}~ Bonuses$				
Not attending	2000	-500			
Using alternative	start signal	-100			
Score per try		1000			
Total Score		1100			
Remarks:					
Date & time	$\overline{Referee}$		Team le	ader	



Test:	Farewell					@Home
Team name:			_			
Referee name:						
The maximum tin	ne for this test is 5 minutes.					
Action		S	Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal						
Each guest success	sfully guided to thier cab	2	$\times 200$			
Identifying the me	dical doctor		200			
Bonus rewards						
Delivering the righ	at coat	2	×100			
9 9	with conversation while ushe	ring person to the cab 2	×100			
Deus Ex Machi	na					
	ch guest is leaving	2	×-30			
Guiding the robot	9	$2 \times$	-120			
=	back to the house	$2 \times$	-120			
	erson is a medical doctor		-200			
Handover the coat		$2 \times$	-100			
Special Penaltie	$s \ {\cal B} \ Bonuses$					
Not attending			-500			
Using alternative	start signal		-100			
Score per try			1000			
Total Score			1100			
Remarks:						
Remarks:						
Date & time	$rac{$	· · · · · · · · · · · · · · · · · · ·		$\overline{Team \ l}$	eader	



Test:	Find my Mates				@Home
Team name:					
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					
Report a guest lo	cation	$2 \times 100$			
Provide location		$2 \times 50$			
Provide description	_	$2 \times 150$			
$Bonus\ rewards$					
Report the 3rd gu	uest location	150			
Provide description	on of a 3rd guest	250			
Deus Ex Mach	ina				
	ve the robot in order to be found				
	the robot where he/she is sitting/standing	$2\times-75$			
Person has to app	proach the robot (e.g. walk and stand in front	of it) $2 \times -150$			
Special Penalti	$es~~ {\it E}~~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100		<del></del> -	<del></del> -
Score per try		1000			
Total Score		1100			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	General Purpose Service Robot				@Home
Team name:					
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					
	k associated with each command	3×400			
Bonus Rewards	3				
Understanding a	command given by a non-expert operator	3×100			
Deus Ex Mach	ina Penalties				
Using a custom of	perator	$3 \times -50$			
Bypassing speech	recognition	$3 \times -50$			
Instructing a hum	nan to perform the task	3×-400			
Special Penaltic	es & Bonuses				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		1500			
Total Score		1650			
Remarks:					
Date & time			Team le	eader	



Test:	Receptionist				@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
Main Goal					
	ew guest to every other guest and offer a seat	$2 \times 250$			
Look at the pe		50			
_	erson being described	50			
_	rection of navigation	50			
	wrong name or drink	$2\times-50$			
	ppropriate gaze - away from conversational partner	$2\times-50$			
-	e not in the direction of the navigation while moving	-50			
Bonus Rewa					
Open the entr	ance door for a guest	$2 \times 100$			
Describe the f	first guest to the second guest	150			
Deus Ex Mo					
Alternative H	RI	$2\times-75$			
Not recognizing	ng people	2×-200			
_	$alties~ {\it \&}~ Bonuses$	~ 0 0			
Not attending		-500			
Score per tr	y	1000			
Total Score		1100			
Remarks:					
Date & time			Team le	eader	



Test:	Serving Drinks			AC	@Home
Team name:					
Referee nam	ne:				
The maximum	n time for this test is <b>5 minutes</b> .				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
	guest without a drink and take order	$3 \times 50$			
	rrect drink from the bar	3×80			
	rink to the right person	3×70			
Bonus rewa	rds				
Informing a gr	uest of drink unavailability upon request	200			
Correcting the	e bartender	2×100			
Regular Pen					
	guest with a drink and take order (per wrong guest)	-50			
Approaching t	the host to take an order	-50			
Deus Ex Me	achina Penalties				
Guest waves t	o the robot to place order	$3 \times -30$			
Guest approach	ches the robot to place order	$3 \times -50$			
Drink handed	over to the robot (bypass picking)	$3 \times -30$			
Drink taken b	y a guest (bypass drink handover)	3×-30			
-	$alties  {\it \& Bonuses}$				
Not attending		-500			
Using alternat	tive start signal	-100			
Score per tr	y	1000			
Total Score		1100			
Remarks:					
Date & time			Team le	eader	



Test:	Serve the Breakfast				@Home
Team name:					
Referee nam	ie:				
The maximum	a time for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
	eakfast items for transportation to the table	4×15			
	fast items on the table	4×60			
=	into the bowl	300			
Bonus Rewa	xrds				
Pouring milk i	into the bowl	300			
Placing a spoo	on next to the bowl	100			
Regular Pen	alties				
Throwing or d	ropping an object on the table	4×-30			
Spilling cereal	while pouring	-100			
Spilling milk v	while pouring	-150			
Deus Ex Ma	achina Penalties				
Pointing at an	object	$4 \times -25$			
Handing an ol	oject over to the robot				
A human plac	ing an object on the table	$4\times-75$			
A human pour	ring cereal in the bowl	-300			
-	$alties~ {\it \&}~ Bonuses$				
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	



Test:	Storing Groceries				@Home
Team name:					
Referee name:					
The maximum time	me for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Picking up an ob	ject for transportation to the cabinet	$5 \times 30$			
Moving an object	next to similar objects on the cabinet	$5 \times 90$			
Bonus Rewards	S				
Opening the cabi	net door without human help	200			
Moving a tiny ob	ject	100			
Moving a heavy of	bject	100			
Regular Penalt	ies				
_	without categorizing it correctly	$5 \times -60$			
Deus Ex Mach	ina Penalties				
A human pointing	g at a target location	$5 \times -30$			
	g an object over to the robot	$5 \times -30$			
A human moving		$5 \times -100$			
Special Penalti	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		1000			
Total Score		1100			
		1100			
Remarks:					
Date $\&$ time	Referee		Team l	eader	



Naximum time:
Maximum time:         5 minutes           Action         Score         1 <sup>st</sup> try         2 <sup>nd</sup> try         3 <sup>rd</sup> try           Regular Rewards         2×300
Action         Score         1st try         2nd try         3rd try           Regular Rewards         2×300
Regular Rewards Move a bag inside the designated zone  Bonus Rewards Depening the bin lid Carry both bags at once  Regular Penalties Placing bag outside collection zone Tipping a bin / tearing a bag  Deus ex Machina Penalties Receiving the bag via handover  Special Penalties & Bonuses Not attending Using alternative start signal  Score per try  1000  2×300  2×100  2×100  2×-100  2×-100  2×-250  3
Bonus Rewards         2×100
Bonus Rewards       2×100
Opening the bin lid       2×100
Carry both bags at once 200
Regular Penalties       2×-100
Placing bag outside collection zone       2×-100
Pipping a bin / tearing a bag       2×-50
Deus ex Machina Penalties         Receiving the bag via handover       2×-250
Receiving the bag via handover       2×-250
Special Penalties & Bonuses         Not attending       -500
Not attending         -500
Using alternative start signal         -100            Score per try         1000
Score per try 1000
Total Score 1100
Remarks:
$egin{array}{cccccccccccccccccccccccccccccccccccc$



Test:	Clean the Table				@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					
	e and cutlery for transportation to the dishwasher	$5 \times 60$			
	ware and cutlery inside the dishwasher	5×180			
Bonus Reward	s				
Opening the dish	washer door	200			
Pulling out the d	ishwasher rack	100			
Placing an item of	correctly in the dishwasher	$5 \times 40$			
Placing the dishv	vasher tab inside the dishwasher	300			
Deus Ex Mach	ina Penalties				
Pointing at an ob	eject or telling the robot where an object is	$5 \times -25$			
Handing an object	ct over to the robot	5×-60			
Special Penalti	es & Bonuses				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time			Team le	eader	



Test:	Enhanced General Purpose Service Robot				@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					
	sk associated with each command	$3 \times 800$			
Bonus rewards	3				
Understanding a	command given by a non-expert operator	$3 \times 200$			
Deus Ex Mach					
Using a custom of		$3 \times -100$			
Bypassing speech	_	$3 \times -100$			
Instructing a hur	man to perform the task	$3 \times -500$			
Special Penalti	ies & Bonuses				
Not attending		-500			
Using alternative	e start signal	-100			
Score per try		3000			
Total Score		3300			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Find my Disk				@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
Main Goal					
Provide an according Desired disk is	curate description of the desired disk s found	600 600			
Bonus rewar	rds				
	to find a second disk	800			
_	$alties~ {\it \&Bonuses}$	<b>7</b> 00			
Not attending Using alternat	ive start signal	$-500 \\ -100$			
Score per tr	u	2000			
Total Score		2200			
Remarks:					
recinar KS.					
Date & time			Team le	eader	



Test:	Hand me That				@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
Main Goal					
Correctly determi	ne each item	5×400			
Correctly determi	ne an item on the second attempt	$5 \times -150$			
Correctly determi	ne an item on the third or fourth attempt	$5 \times -300$			
Correctly determi	ne an item on a subsequent attempt	$5 \times -400$			
Asking 1 clarifyin	g question	$5 \times -100$			
Asking 2 clarifyin	g questions	$5 \times -200$			
Asking 3 or more	clarifying questions	$5 \times -350$			
Deus ex Machi	na Penalties				
Being told the na	me of the object	5×-400			
Special Penaltic	es & Bonuses				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time			Team le	eader	



Test:	Set the Table				AC	@Home
Team name	:					
Referee nar	me:					
The maximum	m time for this test is	10 minutes.				
Action			Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal						
	wer or cupboard door		100			
Pick up plate			$2 \times 50$			
Pick up knife	, spoon, and fork		$3 \times 150$			
Pick up napk			50			
Correctly pla			5×100			
Pointing at o			$5 \times -25$			
Pointing at d	=		$5 \times -50$			
Bonus rewa	urds					
Layplace mat	before objects		500			
Placing all ob	jects correctly		250			
Closing the d	oor or drawer		50			
_	alties & Bonuses					
Not attending			-500			
Using alterna	tive start signal		-100			
Score per tr	ry		2000			
Total Score			2200			
Remarks:						
Date & time		Referee		Team le	eader	



Test:	Restaurant				@Home
Team name:					
Referee name:					
Maximum tin	ne:			15	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Reward	s				
Detect calling or w	vaving customer (per order).	$2 \times 100$			
	s table without prior guidance/training (per order).	$2 \times 100$			
Take and serve an	order.	2×600			
Bonus Rewards					
Use an unattached	tray to transport (per order).	$2 \times 200$			
Regular Penaltic	es				
	ontact when taking an order (per order).	$2 \times -100$			
Deus ex Machin	na Penalties				
Being guided to a		$2 \times -200$			
Bypassing manipu	lation (per object).	$6 \times -100$			
Each object hando	over (per object).	$6 \times -50$			
Being told/pointed	d where is a table $/$ Kitchen-bar (per order).	$2\times-25$			
Special Penaltie	$s \ {\it \& Bonuses}$				
Not attending		-500			
Using alternative s	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time		_	Team le	nder	
_ ~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	100,000		- 00110 00		



Test:	Smoothie Chef				@Home
Team name	:				
Referee nan	ne:				
The maximur	m time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
	ree fruits in the blender	$3 \times 200$			
_	spoon of sugar in the blender	300			
_	in the blender	300			
Bonus Rew	ards				
	r in the blender without spilling	400			
	in the blender without spilling	400			
Regular Per	nalties				
_	correct fruit into the blender	$3 \times -200$			
Deus Ex M	achina Penalties				
Starting the t	test in front of the kitchen counter	-150			
Handing an o	bject over to the robot	-200			
Telling the ro	bot which ingredient comes next	-250			
Using a custo	m operator	-250			
_	$alties  {\it \& Bonuses}$				
Not attending	y O	-500			
Using alterna	tive start signal	-100			
Score per tr	ry	2000			
Total Score		2200			
Remarks:					
Date & time			Team le	and on	
Duic & time	пејетее		$\pm eum$ $te$	uuci	



Test:	Stickler for Rules				erionie
Team name:					
Referee name:					
Maximum tim	e:			10	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Regular Reward Identify a guest book log).	ds reaking a house rule (indicating the rule by voice o	r 4×100			
Making eye-conta	ct, politely clarify to the guest what action he should	d 4×100			
take. Confirm that the	guest is following the rule.	4×200			
<b>Bonus Rewards</b> Making eye-conta broken.	ct, politely clarify to the guest what rule is being	g 4×100			
<b>Regular Penalta</b> Approach a guest	ies who is not breaking a rule.	4×-100			
	ma Penalties the robot towards a guest who is breaking a rule. e robot which guest is breaking a rule.	4×-100 4×-100			
$Special\ Penaltie$	es & Bonuses				
Not attending Using alternative	stant sismal	−500 −100			
Using anternative	start signar	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time			Team le	eader	



Test:	Where is this				@Home
Team name	e:				
Referee na	me:				
The maximu	m time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
M : 0 1					
Main Goal Describing a	nd show the requested location accurately	3×100			
_	operator's navigation, intervening when necessary	3×200			
_	he areas of the <i>Arena</i> traversed during navigation	3×100			
Bonus rew	ards				
Leading non-	-expert operator	$3 \times 100$			
Giving instrutions	uctions to returning operator based on previous inst	ruc- <i>300</i>			
	raction while guiding	200			
Deus Ex M	Machina Penalties				
	peech recognition	$3 \times -50$			
Helping the	robot find the operator	$3 \times -150$			
_	$nalties~ {\it \& Bonuses}$				
Not attending		-500			
Using alterna	ative start signal	-100			
Score per t	ry	2000			
Total Score	9	2200			
Remarks:					
$Date \ \mathcal{C} \ time$	Referee		Team le	eader	

 $Date \ \mathcal{E} \ time$ 



Test: Team name:		Final Dem	onstration — Jury Evaluar	tion	RoboCu @Hom	
		ne:				
R	eferee na	ame:				
[n	structio	ns:				
	<ol> <li>At the</li> <li>After</li> <li>You m</li> <li>Enter</li> </ol>	e end of the demondant demonstration and any use the space your your name (	strations carefully.  nstration you may ask questions, please fill in the below "Remarks:" to take "referee name") on top of "Referee" slot at the botter.	ne evaluation sheet below notes for yourself. the sheet.	v.	
E۱	valuation	n sheet				
	Team	Originality and presentation* (0-10)	Relevance/usefulness to everyday life (0-10)	Elegance of overall demonstration (0-10)	Success of overall demonstration (0-10)	
	Fifth					
	Fourth Third					
	Second					
	First		* Story telling is to			
R	emarks:		, G			

 $Team\ leader$ 

Referee



2001				RoboCup @Home
Test:	Final Demonstration	on — Executive Committee		
Team na	ame:			
Referee	name:			
<ol> <li>At 1</li> <li>Afte</li> <li>You</li> <li>Ent</li> <li>Sign</li> </ol>	ase watch all demonstrations the end of the demonstration er demonstration and questicn may use the space below "Fer your your name ("referee in the form using the "Referee	you may ask questions. ons, please fill in the evaluation of the sheet.		
<ul><li>Con</li><li>Rele</li></ul>	entific contribution ntribution to @Home evance for @Home / Novelty sentation and performance in			
Evaluati	on sheet			
Team	Efficacy of solution to main objective (0-10)	Elegance of solution to main objective (0-10)	Innovation/contribution of additional tasks (0-10)	Difficulty/Success o overall demonstratio (0-10)
Fifth Fourth				
Third Second First				
Remarks	s:			
	 ime	$\overline{Referee}$	- $        -$	