



RoboCup@Home

Forms & Score Sheets

Version: 2022 0

Last Build Date: June 30, 2022 Time: 447

Registration Form



Team name:			
Team leader name:			
Safety first!			
The speed of the robots sh	. During operation in an e		oot is not allowed to go faster it may not exceed a walking
immediately if there is a rea	mote possibility of dangerous or Organizational committee	us behavior towards peopl ee, 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	100001	100001 2	
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.			
		atement and agree to it.	Furthermore, I agree to obey
the rules in the official Rol	· —————		
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
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:

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



Test:	Carry my Luggage				@Home
Team name:					
Referee nam	e:				
The maximum	time for this test is 5 minutes.				
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
M					
Main Goal Picking up the	correct bag	100			
	person to the car	300			
	crowd of people obstructing the path	500			
=	mall object on the ground	50 50			
=	nard-to-see object	50			
=	area blocked with retractable barriers	50			
Bonus rewar	rd e				
Re-entering th		100			
	aying in the queue on the way to the arena	300			
Regular Pen	alties				
Dropping the		50			
Deus Ex Ma	china Penalties				
	the operator by natural interaction	-50			
	the operator by unnatural interaction	-100			
	the operator by direct contact	-200			
Special Pena	ulties & Bonuses				
Not attending		-500			
_	ive start signal	-100			
Score per tr _i	ı	1050			
	,				
Total Score		1155			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Clean Up				@Home
Team name:					
Referee name:					
Maximum tin	ne:			5 r	$_{ m minutes}$
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Regular Reward	s				
	the appropriate location	6×100			
Bonus Rewards					
Moving a <i>tiny</i> objection Moving a <i>heavy</i> of		200 200			
Moving a neavy of	oject	200			
Regular Penaltic Place an object at	es the wrong location	6×-50			
Deus ex Machin	na Romaltina				
Physically interact		6×-60			
	near an object to be moved	6×-40			
_	bject can be found	6×-30			
Telling robot which	h category an object is or where to place it	6×-30			
Pointing out object	et to be moved	6×-20			
Special Penaltie	s & Bonuses				
Not attending	o C Bonusco	-500			
Using alternative s	start signal	-100			
Score per try		1000			
Total Score		1100			
Remarks:					
$Date \ \mathcal{E} \ time$	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	2×100			
Provide location		2×50			
Provide description	_	2×150			
$Bonus\ rewards$					
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×-75			
Person has to app	proach the robot (e.g. walk and stand in front	of it) 2×-150			
Special Penalti	$es~~ {\it E}~~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			 -
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 tim	ne 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					
Understanding a c	command given by a non-expert operator	3×100			
Deus Ex Machi	na Penalties				
Using a custom op		3×-50			
Bypassing speech	recognition	3×-50			
Instructing a hum	an to perform the task	3×-400			
Special Penaltie	es & Ronuses				
Not attending	a C Bonacc	-500			
Using alternative s	start signal	-100			
Score per try		1500			
Total Score		1650			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Receptionist				@Home
Team name:					
Referee nam	ie:				
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	2×250			
Look at the pe		50			
_	erson being described	50			
_	rection of navigation	50			
	wrong name or drink	2×-50			
	opropriate gaze - away from conversational partner	2×-50			
Persistent gaz	e not in the direction of the navigation while moving	-50			
Bonus Rewa	ards				
Open the entr	ance door for a guest	2×100			
Describe the f	irst guest to the second guest	150			
Deus Ex Mo					
Alternative H		2×-75			
Not recognizing	ng people	2×-200			
-	$alties~ {\it \&}~ Bonuses$				
Not attending		-500			
Score per tr	y	1000			
Total Score		1100			
Remarks:					
Date & time	Referee		$Team \ label{eq:team}$	eader	



Test:	Serving Drinks				@Home
Team name:					
Referee nam	e:				
The maximum	time for this test is 5 minutes.				
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Main Goal					
	uest without a drink and take order	3×50			
	rect drink from the bar	3×80			
	rink to the right person	3×70			
Bonus rewar	rds				
	lest of drink unavailability upon request	200			
Correcting the		2×100			
Regular Pen	alties				
•	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×-30			
Guest approac	hes the robot to place order	3×-50			
Drink handed	over to the robot (bypass picking)	3×-30			
Drink taken by	a guest (bypass drink handover)	3×-30			
Special Pena	$lties \ {\it \& Bonuses}$				
Not attending		-500			
Using alternation	ive start signal	-100			
Score per try	ı	1000			
Total Score		1100			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Serve the Breakfast			AC	@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
Main Goal					
	reakfast items for transportation to the table	4×15			
	fast items on the table	4×10 4×60			
_	al into the bowl	300			
Bonus Rewe	ards				
Pouring milk	into the bowl	300			
Placing a spo	on next to the bowl	100			
Regular Per	nalties				
Throwing or	dropping an object on the table	4×-30			
	l while pouring	-100			
Spilling milk	while pouring	-150			
	achina Penalties				
Pointing at an		•			
_	bject over to the robot				
_	cing an object on the table				
A human pou	ring cereal in the bowl	-300			
-	$alties \ {\it \& Bonuses}$	~ 00			
Not attending		-500			
Using alterna	tive start signal	-100			
Score per tr	ry	1000			
Total Score		1100			
Remarks:					
Date & time			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	5×30			
Moving an object	next to similar objects on the cabinet	5×90			
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×-60			
Deus Ex Mach	ina Penalties				
A human pointing	g at a target location	5×-30			
	g an object over to the robot	5×-30			
A human moving		5×-100			
Special Penalti	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		1000			
Total Score		1100			
		1100			
Remarks:					
$Date \ \mathcal{E} \ time$	Referee		Team l	eader	



Test:	Take out Garbage	e			AC.	@Home
Team name:						
Referee name	::					
Maximum ti	me:				5 r	ninutes
Action			Score	1^{st} try	2^{nd} try	3^{rd} try
Regular Rewar	rds					
	e the designated zone		2×300			
Bonus Reward						
Opening the bin			2×100			
Carry both bags	at once		200			
Regular Penalt			0 400			
Placing bag outsi Tipping a bin / t	ide collection zone		2×-100 2×-50			
Tipping a bin / t	caring a bag		2~-30			
Deus ex Macha Receiving the bas			2×-250			
Special Penalti	ies & Bonuses					
Not attending			-500			
Using alternative	start signal		-100			
Score per try			1000			
Total Score			1100			
Remarks:						
$Date \ \mathcal{E} \ time$		Referee		Team lea	ader	



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	5×60			
	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	5×40			
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×-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 tin	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	3×800			
Bonus rewards					
Understanding a	command given by a non-expert operator	3×200		-	
Deus Ex Mach	ina Penalties				
Using a custom o	perator	3×-100			
Bypassing speech	recognition	3×-100			
Instructing a hun	nan to perform the task	3×-500			
Special Penalti	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		3000			
Total Score		3300			
Remarks:					
Date & time	Referee		Team le	eader	



Test:	Find my Disk				@Home
Team name	e:				
Referee na	me:				
The maximu	um time for this test is 5 minutes.				
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Main Goal	1				
	accurate description of the desired disk	600			
Desired disk		600			
$Bonus\ rew$					
Help operate	or to find a second disk	800			
_	nalties & Bonuses				
Not attending		-500			
Using altern	ative start signal	-100			
Score per t	try	2000			
Total Score	е	2200			
Remarks:					
Date & time	${Referee}$		Team le	eader	



Test:	Hand me That				@Home
Team name:					
Referee name:					
The maximum tin	ne for this test is 10 minutes.				
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Main Goal					
Correctly determine	ne each item	5×400			
Correctly determine	ne an item on the second attempt	5×-150			
Correctly determine	ne an item on the third or fourth attempt	5×-300			
Correctly determine	ne an item on a subsequent attempt	5×-400			
Asking 1 clarifying	g question	5×-100			
Asking 2 clarifying	g questions	5×-200			
Asking 3 or more	clarifying questions	5×-350			
Deus ex Machin	na Penalties				
Being told the nar	ne of the object	5×-400			
Special Penaltie	$es \ {\cal E} \ Bonuses$				
Not attending		-500			
Using alternative s	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{Referee}$		Team le	onder.	



Test:	Set the Table						@Home
Team name	:						
Referee nan	ne:						
The maximum	m time for this test is 1	0 minutes.					
Action			Sco	ore	1^{st} try	2^{nd} try	3^{rd} try
Main Goal							
	wer or cupboard door		1	100			
Pick up plate			$2 \times$	50			
Pick up knife	, spoon, and fork		3×1	150			
Pick up napk	in			50			
Correctly place	ce each item		5×1	100			
Pointing at ol	bject		5 imes –	-25			
Pointing at de	estination		5×-	-50			
Bonus rewa							
	before objects			500			
_	jects correctly		6	250			
Closing the de	oor or drawer			50			
_	$alties \ {\it \&Bonuses}$						
Not attending				500			
Using alterna	tive start signal		-1	100			
Score per tr	ry		20	000			
Total Score			22	200			
Remarks:							
$\frac{}{\mathit{Date} \mathcal{C}\mathit{time}}$		$\overline{Referee}$			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				
	vaving customer (per order).	2×100			
	s table without prior guidance/training (per order).	2×100			
Take and serve an	order.	2×600			
Bonus Rewards					
Use an unattached	tray to transport (per order).	2×200			
Regular Penaltic					
Not making eye-co	entact when taking an order (per order).	2×-100			
Deus ex Machin	na Penalties				
Being guided to a	table (per order).	2×-200			
Bypassing manipu	lation (per object).	6×-100			
Each object hando	ver (per object).	6×-50			
Being told/pointed	l where is a table $/$ $Kitchen$ -bar (per order).	2×-25			
Special Penaltie	$s \ \mathcal{E} \ Bonuses$				
Not attending		-500			
Using alternative s	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
$\frac{}{\mathit{Date}~\mathscr{C}~\mathit{time}}$	$\overline{Referee}$	_	Team le	ador	
Dute & time	nejeree		леат не	ииет	



Test:	Smoothie Chef				@Ноте
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					
	fruits in the blender	3×200			
	on of sugar in the blender	300			
Pouring milk in t	_	300			
Bonus Reward	s				
Pouring sugar in	the blender without spilling	400			
Pouring milk in t	the blender without spilling	400			
Regular Penalt	ies				
Placing an incorr	rect fruit into the blender	3×-200			
Deus Ex Mach					
Starting the test	in front of the kitchen counter	-150			
	ct over to the robot	-200			
Telling the robot	which ingredient comes next	-250			
Using a custom of	operator	-250			
Special Penalti	$es~ {\it \&}~ Bonuses$				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time	Referee		$\overline{Team \ le}$	pader	



Test:	Stickler for Rules				@nome
Team name:					
Referee name:	Referee name:				
Maximum tim	e:			10	minutes
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Regular Reward Identify a guest billog).	ds reaking a house rule (indicating the rule by voice of	or 4×100			
*	ct, politely clarify to the guest what action he shoul	d 4×100			
	guest is following the rule.	4×200			
Bonus Rewards Making eye-conta broken.	ct, politely clarify to the guest what rule is bein	g 4×100			
Regular Penalti Approach a guest	ies who is not breaking a rule.	4×-100			
	na Penalties the robot towards a guest who is breaking a rule. e robot which guest is breaking a rule.	<i>4</i> ×− <i>100 4</i> ×− <i>100</i>			
Special Penaltie Not attending Using alternative		-500 -100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time			Team le	eader	



Test:	Where is this				@Home
Team name:					
Referee name:					
The maximum tin	ne for this test is 10 minutes.				
Action		Score	1^{st} try	2^{nd} try	3^{rd} try
Main Goal					
	ow the requested location accurately	3×100			
Monitoring operat	tor's navigation, intervening when necessary	3×200			
Describing the are	eas of the Arena traversed during navigation	3×100			
Bonus rewards					
Leading non-expe	rt operator	3×100			
Giving instruction tions	as to returning operator based on previous ins	struc- 300			
Natural interactio	n while guiding	200			
Deus Ex Machi					
Bypassing speech		3×-50			
Helping the robot	find the operator	<i>3</i> ×- <i>150</i>			
Special Penaltie	es & Bonuses				
Not attending		-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time			Team le	eader	



Test: Team name: Referee name:		Final Dem	onstration — Jury Evalua	tion	RoboCup @Home			
		e :						
		me:						
In	struction	s:						
E	 At the After of You may Enter y 	end of the demon lemonstration and ay use the space your your name (he form using the	strations carefully. Instration you may ask quest d questions, please fill in the below "Remarks:" to take "referee name") on top of "Referee" slot at the bott	ne evaluation sheet below notes for yourself. the sheet.	v.			
_	variation							
	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							
	1 1150		* Story telling is to	be rewarded				
\mathbf{R}	emarks:							

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



				RoboCup ®Home	
Test:	Final Demonstration	on — Executive Committee			
Team na	ame:				
Referee	name:				
 At Aft You Ent Sign Criteria Scie Cor Rel Pre 	ase watch all demonstrations the end of the demonstration er demonstration and question may use the space below "Feer your your name ("referee in the form using the "Referee	you may ask questions. ons, please fill in the evaluation Remarks: to take notes for y name) on top of the sheet. e slot at the bottom.			
Evaluati	Efficacy of	Elegance of	Innovation/contribution	Difficulty/Success o	
Team	solution to main objective (0-10)	solution to main objective (0-10)	of additional tasks (0-10)	overall demonstratio (0-10)	
Fifth					
Fourth Third					
Second					
First					
Remark					
Date \mathcal{E} t	ime	Referee	$Team\ leader$	$Team\ leader$	