



# RoboCup@Home

Forms & Score Sheets

 $\begin{array}{cccc} & Version: \ 2024 & 0 \\ Last \ Build \ Date: \ March \ 12, \ 2024 & Time: \ 276 \end{array}$ 

# Registration Form



Team name:			
Team leader name:			
Safety first!			
The speed of the robots shot than the local speed limits. pace of humans (6 kph, 3.7	During operation in an ex		_
At any time when operating immediately if there is a remember of the Technical or team to stop the robot, the	note possibility of dangerour Organizational committee	us behavior towards peoplee, an Executive or Trust	le and/or objects. If a refere tee of the federation tells th
If the team does not compimmediately by a decision members can be banned fr RoboCup Federation Truste	of the RoboCup@Home Tom future competitions for	Technical Committee. Fu	erthermore, the team and i
	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 understhe rules in the official Rob	=	atement and agree to it.	Furthermore, I agree to ob
Date & time	$\frac{}{Team\ leader}$		

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
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:

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

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



Test:	Carry my Luggage			Ro	@Home
Team name:					
Referee name:					
The maximum tir	ne 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	rrect bag	100			
Following the pers	son to the car	300			
Avoiding the crow	vd of people obstructing the path	50			
Avoiding the sma	ll object on the ground	50			
Avoiding the hard	l-to-see object	50			
=	blocked with retractable barriers	50			
Bonus rewards					
Re-entering the a	rena	100			
	ng in the queue on the way to the arena	300			
Penalties					
Dropping the bag		-50			
$egin{aligned} egin{aligned} egin{aligned\\ egin{aligned} egi$		00			
	operator by natural interaction	-50			
=	operator by unnatural interaction	-100			
_	operator by direct contact	-200			
		-200			
Special Penaltie	es & Bonuses	500			
Not attending	atant signal	-500			
Using alternative	start signal	-100			
Score per try		1015			
Total Score		1116			
Remarks:					

 $Team\ leader$ 

Referee



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	

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



_				Ro	BoCup @Home
Test:	General Purpose Service Robot				
Team name:					
Referee name	:				
The maximum	time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Executing the t	ask associated with each command	$3 \times 400$			
Bonus Rewar					
_	a command given by a non-expert operator	3×100			
	china Penalties				
Using a custom		3×-50			
Bypassing speed	_	3×-50			
centage penalty	uman to perform parts of the task will apply according to similar penalties in other Stage I	-			
-	$ties~ {\it \& Bonuses}$	<b>~</b> 00			
Not attending	4 4 4 1	-500			
Using alternativ	ve start signal	-100			
Score per try		1500			
Total Score		1650			
Remarks:					

 $Team\ leader$ 

Referee



Test:	Receptionist			Ro	@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					
Navigate to th	e door, when the door bell rings	$2 \times 15$			
Guide the gues	st to the other guests (navigate to the guest group)	$2 \times 100$			
Look in the di	rection of navigation or at the navigation goal	$2 \times 50$			
Introduce a ne	w guest to every other guest	$2 \times 50$			
Offer a free sea	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 rol	oot social performance (see sec. ??)	50			
Bonus Rewa	rds				
Open the entra	ance door for a guest	$2 \times 100$			
Describe the fi	rst guest to the second guest	150			
Penalties					
Wrong guest in or drink)	nformation was memorized (continue with wrong name	-50			
Persistent inap	propriate gaze (away from conversational partner)	-50		-	
Persistent gaze	e not in the direction of the navigation while moving.	-10		-	
Deus Ex Ma	china				
Alternative HI	RI	$2\times-75$			
Not recognizin	g people	$2 \times -200$			
Special Pena	llties & Bonuses				
Not attending		-500			
Score per try	y	1180			
Total Score		1298			
Remarks:					
Date & time			${Team\ le}$	eader	



Test:	Serving Drinks			RC	@Home
Team names					
Referee nan					
The maximum	n time for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$		20010	1 013		
	guest without a drink and take order	$3 \times 50$			
Picking up co	rrect drink from the bar	$3 \times 80$			
Delivering a d	lrink to the right person	$3 \times 70$			
Bonus rewa	rds				
Informing a g	uest of drink unavailability upon request	200			
Correcting the	e bartender	$2 \times 100$			
Regular Per	nalties				
	guest with a drink and take order (per wrong guest)	-50			
Approaching	the host to take an order	-50			
	achina Penalties				
	to the robot to place order	$3\times-30$			
	ches the robot to place order	$3\times-50$			
	over to the robot (bypass picking)	3×-30			
	y a guest (bypass drink handover)	3×-30			
_	$alties \ {\it @Bonuses}$	<b>500</b>			
Not attending		-500			
Using alternate	tive start signal	-100			
Score per tr	y	1000			
Total Score		1100			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Serve the Breakfast				@Home
Team name:					
Referee name:					
The maximum ti	ime for this test is 5 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Initial navigation	n to pick up area	15			
Perceiving object	t and categorizing it correctly (visualize or say)	4×15			
Picking up break	sfast items for transportation to the table	4×50			
Placing breakfas	t items on the table	4×50			
Pouring cereal in		300			
Bonus Reward	ls				
Pouring milk int		300			
=	next to the bowl	100			
Penalties					
	pping an object on the table	4×-30			
Spilling cereal w		-100			
Spilling milk wh		-100			
Deus Ex Mach	-				
Pointing at an o		$4 \times -5$			
	ct over to the robot	4×-20			
	g an object on the table	4×-60			
= =	g cereal in the bowl	-100			
Special Penalt					
Not attending	ics of Donases	-500			
Using alternative	e start signal	-100			
Score per try		1175			
Total Score		1292			
Remarks:					
Date & time			Team le	eader	

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



Test:	Storing Groceries				@Home
Team name:					
Referee name:					
Referee name:  The maximum time for this test is 5 minutes.  Action  Main Goal  Navigating to the table Perceiving object and categorizing it correctly (visualize or say) Picking up an object for transportation to the cabinet Perceiving objects in shelf and saying on which layer the currently handled object should be placed (visualize or say) Placing an object in the cabinet Placing an object next to similar objects on the cabinet  Bonus Rewards Opening the cabinet door without human help Picking and placing a tiny object Picking and placing a heavy object  Penalties Storing an object without categorizing it correctly Deus Ex Machina Penalties A human handing an object over to the robot (the object is clearly indicated by the robot) A human placing an object in the cabinet at a location clearly indicated by the robot A human placing an object in the cabinet A human placing at a target location Special Penalties & Bonuses Not attending Using alternative start signal  Score per try  Total Score  Remarks:					
The maximum tin	ne for this test is 5 minutes.				
		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
		15			
	·				
0 1		5×50			
		rrently $5 \times 15$			
•	-	_ ,_			
0 0		5×15			
	-	$5 \times 50$		<del></del>	
= =		200			
		100			
	ng a heavy object	100			
		$5 \times -60$			
	• • • • • • • • • • • • • • • • • • • •	clearly $5 \times -15$			
A human handing	an object over to the robot	$5 \times -30$			
	an object in the cabinet at a location clearly inc	dicated $5 \times -45$			
A human placing	an object in the cabinet	$5 \times -90$			
	an object in the cabinet at a location clearly inc	dicated $5 \times -30$			
A human pointing	at a target location	$5 \times -45$			
$Special\ Penaltie$	$es \ {\cal E} \ Bonuses$				
•		-500			
Using alternative	start signal	-100			
Score per try		1140			
Total Score		1254			
Remarks:					
$Date \ \mathcal{E} \ time$	Referee		Team le	eader	



Test:	Take out Garbag	e			AC	@Home
Team name:						
Referee nam	ne:					
Maximum	time:				5 r	minutes
Action			Score	$1^{st}$ $\mathbf{try}$	$2^{nd}$ try	$3^{rd}$ try
Regular Rewa			0000			
	ide the designated zone		$2 \times 300$			
Bonus Rewar			0,, 100			
Opening the bin			2×100 200			
Carry both bag Regular Pena			200			
	tside collection zone		2×-100			
Tipping a bin /			2×-50			
	hina Penalties		2/ 00			
	ag via handover		$2 \times -250$			
_	$ties~ {\it \&Bonuses}$		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Not attending			-500			
Using alternative	ve start signal		-100			
Score per try			1000			
Total Score			1100			
Remarks:						
Date & time		$\overline{Referee}$		Team le	ader	



Test:	Clean the Table				@Home
Team name:					
Referee name	:				
The maximum t	time for this test is 10 minutes.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
Navigate to the	table to pick up items	15			
Picking tablewa	re (cup, bowl) for transportation to the dishwasher	$2 \times 40$			
Picking up a pla	ate for transportation to the dishwasher	50			
Picking up cutle	ery (spoon, fork) for transportation to the dishwasher	2×80			
Placing the tabl	eware and cutlery inside the dishwasher	$5 \times 50$			
Placing an item in the dishwashe	correctly (cleanable, convenient like a human would)	$5 \times 50$			
Bonus Reward					
Pulling out the		100			
Pushing in the o		100			
Opening the dis		200			
Closing the dish		200			
_	dishwasher tab for transportation to the dishwasher	100			
	washer tab inside the dishwasher's hatch intended for				
the tab	washer tas histae the dishwasher s haten interfed for	200			
Deus Ex Mac	hina Penalties				
Pointing at an o	object or telling the robot where an object is	$5 \times -20$			
Handing an obje	ect over to the robot	$5 \times -70$			
Placing an object	ct	$5 \times -180$			
Special Penalt	$ties~ {\it \& Bonuses}$				
Not attending		-500			
Using alternativ	e start signal	-100			
Score per try		1705			
Total Score		1875			
Remarks:					
Tuesta iisi					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Enhanced General Purpose Service Rob	oot		AC	@Home
Team name:					
Referee name:					
The maximum ti	me for this test is 10 minutes.				
	me for this test is 10 innitites.				
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
Main Goal  Find and clearly	state an encountered problem	3×150			
Solve a problem	state an encountered problem	$3 \times 650$			
Deus Ex Mach	ina Penalties	37.000			
Asking for location		$3 \times -200$			
Instructing a hur	man to perform parts of the task will ap				
centage penalty a	according to similar penalties in other Sta	ge II tests.			
Special Penalti	es & Bonuses	~			
Not attending	4 4 1 1	-500			
Using alternative	start signal	-100			
Score per try		2400			
Total Score		2640			
Remarks:					
itemarks.					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Find my Disk			Ro	@Home
Team name:					
Referee name:					
The maximum t	ime for this test is 5 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
	rate description of the desired disk	600			
Desired disk is fe		600			
Bonus rewards		200			
	find a second disk	800			-
Not attending	$ies  {\it \& Bonuses}$	-500			
Using alternative	e start signal	-100			
Score per try		2000			
Total Score		2200			
Date & time			$\overline{Team\ le}$	eader	

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



Test:	Hand me That			RC	@Home
Team name:					
Referee name	:				
The maximum t	time for this test is 10 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Correctly determ	nine each item	5×400			
Correctly determ	nine an item on the second attempt	$5 \times -150$			
Correctly determ	nine an item on the third or fourth attempt	$5 \times -300$			
Correctly determ	nine an item on a subsequent attempt	$5 \times -400$			
Asking 1 clarify	ing question	$5 \times -100$			
Asking 2 clarify	ing questions	$5 \times -200$			
Asking 3 or mor	re clarifying questions	$5 \times -350$			
Deus ex Mach	nina Penalties				
Being told the n	name of the object	$5 \times -400$			
Special Penalt	ties & Bonuses				
Not attending		-500			
Using alternativ	e start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					

Referee

 $Team\ leader$ 



Test: Se	t the Table				@Home
Team name:					
Referee name:					
The maximum time f	or this test is 10 minutes.				
Action		Sco	${f re} = 1^{st} {f try}$	$2^{nd}$ try	$3^{rd}$ try
Main Goal					
Open the drawer or c	upboard door	10	00		
Pick up plate and cup	o O	$2\times$	50		
Pick up knife, spoon,	and fork	3×1.	50		
Pick up napkin			50		
Correctly place each	item	5×10	00		
Pointing at object		$5 \times -2$	25		
Pointing at destination	on	5 imes – .	50		
Bonus rewards					
Layplace mat before	objects	50	00		
Placing all objects co		2.	50		
Closing the door or d			50		
Special Penalties &					
Not attending		-50	00		
Using alternative star	t signal	-10			
Score per try		200	00		
Total Score		220	00		
Remarks:					
Date & time			$\overline{Team}$	leader	



Test:	Restaurant			Ro	@Home
Team name:					
Referee nam	ne:				
Maximum t	time:			15	minutes
Action		Score	$1^{st}$ try	$2^{nd}$ try	$3^{rd}$ try
$\overline{Regular\ Rewa}$	urds				
_	r waving customer	$2 \times 100$			
	er's table without prior guidance/training	$2 \times 100$			
Take an order.		$2 \times 300$			
Serve an order.		$2 \times 300$			
	ot social performance (see sec. ??)	50			
Bonus Rewar		2 222			
	hed tray to transport	$2 \times 200$			
Regular Pena		0,, 100			
	c-contact when taking an order thina Penalties	2×-100			
Being guided to		2×-200			
	man to handover object to the robot	$4\times-100$			
_	to take the object from a tray or the robot's hand				
	ated where is a table/ <i>Kitchen-bar</i>	$2\times -100$			
	$ties~ {\it \& Bonuses}$	2/ 100	<del></del>		
Not attending		-500			
Using alternative	ve start signal	-100			
Score per try		2050			
Total Score		2255			
Remarks:					
Date & time	$\overline{Referee}$		Team le	ader	



Test:	Smoothie Chef			RC	@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
$\frac{Main\ Goal}{}$		Score	1 01 y	2 01 y	o dry
	aree fruits in the blender	$3 \times 200$			
_	aspoon of sugar in the blender	300			
_	in the blender	300			
Bonus Reu	vards				
Pouring suga	ar in the blender without spilling	400			
Pouring milk	in the blender without spilling	400			
Regular Pe	nalties				
Placing an ir	acorrect fruit into the blender	$3 \times -200$			
Deus Ex M	Iachina Penalties				
Starting the	test in front of the kitchen counter	-150			
Handing an	object over to the robot	-200			
Telling the re	obot which ingredient comes next	-250			
Using a custo	om operator	-250			
Special Per	$nalties~ {\it \&Bonuses}$				
Not attendin	_	-500			
Using alterna	ative start signal	-100			
Score per t	ry	2000			
Total Score	)	2200			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Stickler for Rules				@Home
Team name:					
Referee name:					
Maximum tim	e:			10	minutes
Action		Score	$1^{st}$ $\mathbf{try}$	$2^{nd}$ try	$3^{rd}$ try
Regular Reward					
Identify a guest b log).	reaking a house rule (indicating the rule by vo	pice or $4 \times 100$			
-/	ct, politely clarify to the guest what action he	should $4 \times 100$			
Confirm that the	guest is following the rule.	4×200			
Bonus Rewards Making eye-conta broken.	ct, 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					
	the robot towards a guest who is breaking a r				
	e robot which rule is being broken	4×-100			
Special Penaltic Not attending	es & Bonuses	-500			
Using alternative	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Date & time	$\overline{Referee}$		Team le	eader	



Test:	Where is this			RC	@Home
Team name:					
Referee name:					
The maximum tim	ne for this test is 10 minutes.				
Action		Score	$1^{st}$ <b>try</b>	$2^{nd}$ try	$3^{rd}$ try
$\overline{Main~Goal}$					
=	ow the requested location accurately	3×100			
	or's navigation, intervening when necessary	3×200			
_	as of the Arena traversed during navigation	3×100			
Bonus rewards		0 400			
Leading non-exper	-	3×100			
Giving instructions tions	s to returning operator based on previous instruc	- 300			
Natural interaction	n while guiding	200			
Deus Ex Machin		200			
Bypassing speech		$3 \times -50$			
Helping the robot	_	3×-150			
Special Penaltie		07. 100			
Not attending	2 C Donasse	-500			
Using alternative s	start signal	-100			
Score per try		2000			
Total Score		2200			
Remarks:					
Remarks:					
Date & time			Team le	eader	



$\mathbf{S}_{\mathbf{G}}$	core	Sheet			RoboCup @Home				
Test: Team name: Referee name:		Final Dem	onstration — Jury Evalua	tion	@Home				
		e:							
		nme:							
$\mathbf{Ins}$	truction	as:							
2 2 2 2 5	<ol> <li>Please watch all demonstrations carefully.</li> <li>At the end of the demonstration you may ask questions.</li> <li>After demonstration and questions, please fill in the evaluation sheet below.</li> <li>You may use the space below "Remarks:" to take notes for yourself.</li> <li>Enter your your name ("referee name") on top of the sheet.</li> <li>Sign the form using the "Referee" slot at the bottom.</li> </ol>								
Eva	aluation	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								

#### Remarks:

Referee $Date \ \ \mathcal{U} \ time$  $Team\ leader$ RoboCup@Home Forms & Score Sheets / Final version for RoboCup 2024 (Revision  $\_0)$ 

<sup>\*</sup> Story telling is to be rewarded

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



Test:	Final Demonstration	on — Executive Committee		@Home		
Team na	me:					
Referee r						
<ol> <li>At th</li> <li>After</li> <li>You</li> <li>Ente</li> </ol>	se watch all demonstrations he end of the demonstration r demonstration and question	you may ask questions. ons, please fill in the evaluation demarks:" to take notes for youname") on top of the sheet.				
<ul><li>Cont</li><li>Rele</li></ul>	ntific contribution tribution to @Home vance for @Home / Novelty entation and performance in					
Evaluatio	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 of overall demonstration (0-10)		
Fifth						
Fourth						
Third						
Second						
First						
Remarks						

Referee

 $Team\ leader$