



# RoboCup@Home

Forms & Score Sheets

Version: 2013 445

Last Build Date: July 30, 2013 Time: 640

2013-07-30

# Registration Form



Team name:				
Team leader name:				
Weight & dimensions (robot	t 1):			
Weight & dimensions (robot	t <b>2</b> ):			
External devices:				
Safety first!				
The speed of the robots should enthan the local speed limits. During pace of humans (6 kph, 3.7 mph)	ing operation in an			=
At any time when operating the immediately if there is a remote p member of the Technical or Org team to stop the robot, there will	possibility of dangero ganizational commit	ous behavior toward tee, an Executive o	ds people and/or ob or Trustee of the fe	ojects. If a referee, ederation tells the
If the team does not comply, the immediately by a decision of the members can be banned from full RoboCup Federation Trustee Bo	te RoboCup@Home uture competitions	Technical Commit	ttee. Furthermore,	the team and its
I have read and fully understood the rules in the official RoboCup	_	statement and agre	e to it. Furthermon	e, I agree to obey
Date & time	Team leader			



s. Score		
Saona		
Score	1st try	2nd try
button)		
400		
$2 \times 200$		
$emergency\ button)$		
100		
$2 \times 50$		
sheets $\times$ 30 300		
-500		
100		
1000		
a	emergency button) $ \begin{array}{r} 100 \\ 2 \times 50 \end{array} $ functional wire has als covered, etc. $ \begin{array}{r} 200 \\ 300 \\ -500 \\ 100 \end{array} $	2 × 200  emergency button)  100 2 × 50  functional wire has als covered, etc.  sheets × 30

 $Team\ leader$ 

Referee



Test:	Poster Session	Phome
Team name:		
Referee name:		

#### **Instructions:**

- 1. Please watch all presentations carefully.
- 2. In addition, have a thorough view on all posters.
- 3. At the end of the presentation you may ask questions.
- 4. After presentation and questions, please fill in the evaluation sheet below.
- 5. Is not allowed to evaluate your own team.
- 6. You may use the space below "Remarks:" to take notes for yourself.
- 7. Enter your team's name ("Team name") and your name ("referee name") on top of the sheet.
- 8. Sign the form using either "Referee" or "Team leader" slots at the bottom.

#### **Evaluation sheet**

Team	Quality of appearance	Quality of poster	Scientific	Poster presentation
Team	of poster (0-10)	content (0-10)	value (0-10)	and questions (0-10)
Pumas				
Sun				
Reem@IRI				
BORG				
UChile HomeBreakers				
BART LAB AssistBot				
ToBi (Team of Bielefed)				
Dong Yang				
SKUBA				
Golem				

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



Test:	Follow me			@Home
Team name:				
Referee name	e:			
The maximum	time of the test is 8 minutes.			
Action		Score	1st try	2nd try
Points for th	ne three sections			
	me $\Delta t_1$ achieved in section 1, less points are given as (see Normalization)	300		
	me $\Delta t_2$ achieved in section 2, less points are given as (see Normalization)	300		
	me $\Delta t_3$ achieved in section 3, less points are given as (see Normalization)	300		
Additional pe	oints			
completing the	e full task	100		
Special penal	lties & bonuses			
Not attending		-500		
Outstanding p	erformance	100		
Total score		1000		
point) and at needed for each normalized wit	the final goal point (e.g. $t_1 = 125sec, t_2 = 305sec,$ a section are computed (e.g. $\Delta t_1 = 125sec, \Delta t_2 = 180$ th regard to the best time interval achieved for this $(120sec)$ . In the example a complete score of $(240 + 1)$	$t_3 = 425sec$ ) $sec, \Delta t_3 = 12$ section (e.g.	Then the ti 20sec). The sco $\Delta t_1^{min} = 100s$	me intervals bres are then $ec, \Delta t_2^{min} =$
Normalizatio computed by		,	e score for tha	t section $i$ is
	normalized score for section $i = 300 \times ($			
where $\Delta t_1 = t_1$ achieved by a	$t_1 - 0, \Delta t_2 = t_2 - t_1, \Delta t_3 = t_3 - t_2, \text{ and } \Delta t_1^{min}, \Delta t_2^{min}$ team.	$t, \Delta t_3^{min}$ are t	he minimum ti	me intervals
Remarks:				
	Referee	Team lead	der	



Test:	Cocktail Party			@Home
Team name:				
Referee name:				
The maximum t	ime for this test is 10 minutes.			
Action		Score	1st try	2nd try
Taking the ord	lers			
Detecting the ca		$3 \times 150$		
_	and repeating the correct person and drink names given if either of the names is incorrectly under-	3 × 100		
Grasping drin	ks			
	$dered\ drink\ (and\ successfully\ lifting\ it\ up\ to\ at\ are than\ 10\ seconds)$	$3 \times 200$		
Delivering dri	nks			
Delivering the co	orrect ordered drink	$3 \times 200$		
Leaving the ar	rena			
Autonomously le	eaving the arena within the time limit	50		
Penalties				
Talking to the w	rong person (using wrong name)	-50		
Talking to some	thing that is not a person	-150		
Special penalti	ies & bonuses			
Not attending		-500		
Using start butt	on	-100		
Outstanding per	formance	200		
Total score		2000		
Remarks:				
Date & time	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\overline{Team\ leade}$	r	



Test:	Clean up			@Home
Team name:				
Referee name:				
The maximum ti	me for this test is 8 minutes.			
Action		Score	1st try	2nd try
Penalties invol	ved per object grasped and placed			
Successfully grastion	ping and placing an object at the correct loca-	1000		
Placing an object	at a wrong location	-600		
Penalty for "hand	d over" instead of autonomous grasping	-400		
Penalty for "hand	d over" instead of autonomous placing	-200		
$Additional\ pen$	alties			
_	information when asking for help.	-100		
Special penaltic	es & bonuses			
Not attending		-500		
Using start butto	on	-100		
Outstanding perf		100		
Total score		1000		
	If a team achieves more than 1000 points (without normalized. That is, the team with maximally act y less.			, .
Remarks:				

 $Team\ leader$ 

Referee



Test:	Emangapay Cituatian		5	oboCup @Home
	Emergency Situation			
Team name:				
Referee name:				
The maximum tir	ne for this test is 7 minutes.			
	ire for this test is T minutes.	_		
Action		Score	1st try	2nd try
$Detecting\ fire/s$				
Automatic detect	ion of fire/smoke	200		
Saving persons	(see below for handling of multiple persons	3)		
	robot correctly asking for his/her status	200		
Talking to someth	ning that is not a person	-100		
Correctly underst	anding the answers of the person	150		
Correctly guiding	the person to an exit	150		
Exit the arena				
	he arena after all the persons have been saved	100		
Report				
Up to 200 points	(decided by TC/referees) are awarded for use- less of information in the PDF report	200		
$Special\ penaltie$	$s \ {\it E} \ bonuses$			
Not attending		-500		
Using start button	n	-100		
Outstanding perfe	ormance	100		
Total score		1000		
item is obtained. Example: Finding points. Guiding a (i.e., total 600 po	persons: In case multiple persons are saved, the Negative scores are accumulated, while no total negall five persons, correctly talking to them and gual of them to the exit gives additional 100 points ints). If the TC/referees award 50 points for the 7 times to something that was not a person, the	gative score of niding one of if the robot PDF report	can be achieved them to the exercise the arena (total 650 point	in this test. tit gives 500 a afterwards tts), but the

 $Team\ leader$ 

Referee



Test:	Open challenge	<b>чноте</b>
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. 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**

Date & time

	Overall	H-R-I	Robot	Usefulness	Novelty/Scientific	Difficulty &
Team	demo		Autonomy	for daily life	contribution	Success
	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)
Pumas						
Sun						
Reem@IRI						
BORG						
UChile HomeBreakers						
BART LAB AssistBot						
ToBi (Team of Bielefed)						
Dong Yang						
SKUBA						
Golem						

Remarks:			

 $Team\ leader$ 

Referee



Test:	(Enhanced) General Purpose Service Robot	
Team name:		
Referee name:		

The maximum time for this test is 10 minutes.

	Category I		Category II		Category III				
	Score item	DO	CO	Score item	DO	СО	Score item	DO	СО
	1/3 Task	200	100	Questions	300	150	Task	300	150
	2/3 Task	200	100	1/2  Task	200	100	Indicating	200	100
Command 1	3/3 Task	200	100	2/2 Task	400	200	Explaining	300	150
							Alternative	200	100
	Total			Total			Total		
	1/3 Task	200	100	Questions	300	150	Task	300	150
	2/3 Task	200	100	1/2  Task	200	100	Indicating	200	100
Command 2	3/3 Task	200	100	2/2 Task	400	200	Explaining	300	150
							Alternative	200	100
	Total			Total			Total		
	1/3 Task	200	100	Questions	300	150	Task	300	150
	2/3 Task	200	100	1/2  Task	200	100	Indicating	200	100
Command 3	3/3 Task	200	100	2/2 Task	400	200	Explaining	300	150
							Alternative	200	100
	Total			Total			Total		
Max/Category									

DO = default operator (refereeing TC members), CO = custom operator (chosen by the team)

Action		Score	1st try	2nd try
Command categories				
Maximum for Category I		600		
Maximum for Category II		900		
Maximum for Category III		1000		
Special penalties & bonuses				
Not attending		-500		
Using start button		-100		
Outstanding performance		250		
Total score		2500		
Remarks:				
Date & time	Referee	Team lead	der	



Test:	Restaurant		R	@Home
Team name	:			
Referee nar	me:			
The maximur	m time for this test is 10 minutes.			
Action		Score	1st try	2nd try
Guide Phas Reaching a lo	ecation in the guide phase	$5 \times 50$		
Navigation Reaching a (t	Phase cask-relevant) location in the manipulation phase	4 × 100		
	ae correct objects grasping a correct object from a shelf	$3 \times 250$		
_	the correct objects delivering the correct object to the correct location	3 × 200		
Special pend Not attending Outstanding		-500 200		
Total score	<u>-</u>	2000		
Remarks:				

 $Team\ leader$ 

Referee



Test: D	emo challenge	
Team name: _		
Referee name: _		
Criteria (up to 15	00 points, plus up to 500	for interaction with another team)
<ul><li> marketability/s</li><li> safety, and</li></ul>	the task and performance, story, nteraction/usability/appearar	ace
Evaluation sheet		
Team	Notes	
Dong Yang		
ToBi		
Reem@IRI		
NimbRo@Home		
Tech United Eindh	oven	
BORG		
SKUBA		
MRL		
homer@UniKoblenz	Z	
WrightEagle@Home	е	
Pumas		
Remarks:	,	
Date & time	Referee	$\overline{Team\ leader}$



Test:	Final Demonstration – Jury Evaluation	<b>Чнот</b>
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	Usability / Human-	Usefulness	Difficulty
Team	presentation*	Robot Interaction	for daily life	& Success
	(0-10)	(0-10)	(0-10)	(0-10)
homer@UniKoblenz				
BORG				
Tech United Eindhoven				
NimbRo@Home				
WrightEagle@Home				

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

#### Remarks:

Date & time	Referee	Team leader	



		Robo Cur @Home
Test:	Final Demonstration – Executive Committee	Gilding
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.

#### Criteria:

- Scientific contribution
- Contribution to @Home
- Relevance for @Home / Novelty of approaches
- Presentation and performance in the finals

#### **Evaluation sheet**

	Scientific	Contribution	Relevance for @Home/	Presentation &
Team	contribution	to @Home	Novelty of approaches	Performance (demo)
	(0-10)	(0-10)	(0-10)	(0-10)
homer@UniKoblenz				
BORG				
Tech United Eindhoven				
NimbRo@Home				
WrightEagle@Home				

#### Remarks:

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