



RoboCup@Home

Forms & Score Sheets

Version: 2025 1

Last Build Date: November 25, 2024 $\,$ Time: 626 $\,$ 2024-11-25

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 | $\frac{}{Team\ leader}$ | | |



| 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

| Tooms | Overall score |
|---------------------------------------|------------------|
| Team | of poster (0-10) |
| Chief Scientist Office | |
| EPFL@Home | |
| eR@sers | |
| FBOT@Home | |
| Gentlebots | |
| Hibikino-Musashi@Home | |
| KIARO | |
| LAR@Home | |
| LASR | |
| LCASTOR | |
| LyonTech | |
| NimbRo@Home | |
| Pumas | |
| PUMAS-DSPL | |
| RoboCanes-VISAGE | |
| RoboFEI@Home | |
| RoBorregos rUNSWeep | |
| Serious Cybernetics Corporation (SCC) | |
| Sinfonia Uniandes | |
| SKUBA | |
| SOBITS | |
| SocRob@Home | |
| SUTURO-VaB | |
| Team of Bielefeld (ToBi) | |
| Tech United Eindhoven | |
| Tidyboy-DSPL | |
| Tidyboy-OPL | |
| Tinker | |
| TRAIL | |
| UT Austin Villa@Home | |

| Т | | | | 1 | | |
|---|---|----|----|---|----|---|
| к | e | rr | ıa | r | ks | : |

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

Remarks:



| Test: | Help Me Carry | | | | @Home |
|-------------------|--|-------|-------------------------|--------------|--------------|
| Team name: | | | | | |
| Referee name: | | | | | |
| Action | | Score | 1^{st} \mathbf{try} | 2^{nd} try | 3^{rd} try |
| Main Goal | | | | | |
| Following the per | son to the car | 300 | | | |
| Perceiving the co | rrect beg (visualize on screen or say which one) | 15 | | | |
| Picking up the co | rrect bag | 100 | | | |
| Avoiding the crov | vd of people obstructing the path | 50 | | | |

| Total Score | 1226 | | |
|---|--------------|------|--|
| Score per try | 1115 | | |
| Duration (limit: 5:00 minutes) | | | |
| Recordings | 111 | | |
| Outstanding performance | 111 | | |
| Using alternative start signal | -300 -100 | | |
| Special Penalties & Bonuses Not attending | -500 | | |
| Rediscovering the operator by direct contact | -200 | | |
| Rediscovering the operator by asking them to come back | -150 | | |
| Rediscovering the operator by unnatural interaction | -100 | | |
| Rediscovering the operator by natural interaction | -50 | | |
| Deus Ex Machina Penalties | | | |
| Dropping the bag | -50 | | |
| Penalties | | | |
| Joining and staying in the queue on the way to the arena | 300 | | |
| Re-reaching the starting location | 200 | | |
| Bonus rewards | | | |
| Avoiding the area blocked with retractable barriers | 50 | | |
| Avoiding the hard-to-see object | 50 | | |
| Avoiding the small object on the ground | 50 | | |
| Avoiding the crowd of people obstructing the path | 50 | | |
| Picking up the correct bag | 100 | | |
| Perceiving the correct beg (visualize on screen or say which one) | 15 | | |
| Following the person to the car | 300 | | |
| Main doui | | | |

| $\overline{Date \ \mathcal{C} \ time}$ | $\overline{Referee}$ | $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$ |
|--|----------------------|--|



| Test: | General Purpose Service Robot | | | RC | @Home |
|-------------------------------|---|----------------|-------------------------|--------------|--------------|
| Team name: | | | | | |
| Referee name: | | | | | |
| Action | | Score | 1^{st} \mathbf{try} | 2^{nd} try | 3^{rd} try |
| Main Goal Executing the tas | k associated with each command | 3×400 | | | |
| Bonus Rewards | a associated with each command | 3~400 | | | |
| | command given by a non-expert operator | 3×100 | | | |
| Deus Ex Machi | | 5×100 | | | |
| Using a custom of | | 3×-50 | | | |
| Bypassing speech | | 3×-50 | | | |
| _ | nan to perform parts of the task will apply a ecording to similar penalties in other Stage I | - ' | | | |
| Special Penaltie | | | | | |
| Not attending | | -500 | | | |
| Using alternative | start signal | -100 | | | |
| Outstanding perfe | ormance | 150 | | | |
| Recordings Duration (limit: 5 | ::00 minutes) | | | | |
| Score per try | | 1500 | | | |
| Total Score Remarks: | | 1650 | | | |
| | | | | | |
| | | | | | |

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



| | | | | Ro | boCuj @Hom |
|-----------------------------|---|----------------|-------------------------|--------------|---------------|
| Test: | Receptionist | | | | |
| Team name: | | | | | |
| Referee name: | | | | | |
| Action | | Score | 1^{st} \mathbf{try} | 2^{nd} try | 3^{rd} try |
| Main Goal | | | | | |
| Guide the guest to | o the other guests (navigate to the guest group) | 2×15 | | | |
| Look in the direct | ion of navigation or at the navigation goal | 2×50 | | | |
| Introduce a new g | guest to every other guest and the host | 2×50 | | | |
| Offer a free seat t | o the new guest | 2×100 | | | |
| Look at the perso | n talking | 2×25 | | | |
| Look at the perso | n the robot is introducing the guest to | 2×50 | | | |
| Qualitative robot | social performance | 50 | | | |
| Bonus Rewards | | | | | |
| Open the entrance | e door for a guest | 2×100 | | | |
| Describe the first | guest to the second guest (per corect attribute) | 4×30 | | | |
| Describe the first | guest to the second guest (per incorrect attribute) | 4×-30 | | | |
| Penalties | | | | | |
| Wrong guest infor or drink) | mation was memorized (continue with wrong name | -50 | | | |
| Persistent inappro | opriate gaze (away from conversational partner) | -50 | | | |
| = = | ot in the direction of the navigation while moving. | -10 | | | |
| Deus Ex Machi | ina | | | | |
| Alternative HRI | | 2×-75 | | | |
| Not recognizing p | eople | 2×-200 | | | |
| Special Penaltie | | | | | |
| Not attending | | -500 | | | |
| Outstanding perfe | ormance | 95 | | | |
| Recordings | | | | | |
| Duration (limit: 5 | 5:00 minutes) | | | | |
| Score per try | | 950 | | | |
| Total Score | | 1045 | | | |
| Remarks: | | | | | |
| | | | | | |
| | | | | | |

| Date & time | $\overline{Referee}$ | $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$ |
|-------------|----------------------|--|

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



| est: Ser | ve the Breakfast | | | RC | @Home |
|------------------------|--|----------------|--------------|--------------|--------------|
| | ve the Breaklast | | | | |
| eam name: | | | | | |
| eferee name: | | | | | |
| ction | | Score | 1^{st} try | 2^{nd} try | 3^{rd} try |
| ain Goal | | | | | |
| itial navigation to p | ick up area | 15 | | | |
| rceiving object and | categorizing it correctly (visualize or say) | 4×15 | | | |
| cking up breakfast i | tems for transportation to the table | 4×50 | | | |
| acing breakfast item | s on the table | 4×50 | | | |
| ouring cereal into the | e bowl | 300 | | | |
| $onus \ Rewards$ | | | | | |
| ouring milk into the | bowl | 300 | | | |
| acing a spoon next | to the bowl | 100 | | | |
| enalties | | | | | |
| rowing or dropping | an object on the table | 4×-30 | | | |
| illing cereal while p | ouring | -100 | | | |
| illing milk while po | ıring | -100 | | | |
| eus Ex Machina . | Penalties | | | | |
| inting at an object | | 4×-5 | | | |
| anding an object over | er to the robot | | | | |
| human placing an o | bject on the table | 4×-50 | | | |
| human pouring cere | al in the bowl | -300 | | | |
| pecial Penalties & | Bonuses | | | | |
| ot attending | | -500 | | | |
| ing alternative start | | -100 | | | |
| ıtstanding performa | nce | 117 | | | |
| ecordings | | | | | |
| iration (limit: 5:00 | minutes) | | | | |
| core per try | | 1175 | | | |
| otal Score | | 1292 | | | |
| emarks: | | | | | |
| otal Score | | | | | |

 $Team\ leader$

Referee

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



| _ | | | | Ro | boCu @Hom |
|--|--|----------------|--------|--------------|--------------|
| Test: | Storing Groceries | | | | |
| Team name: | | | | | |
| Referee name: | | | | | |
| A | | C | 101 | and i | and i |
| $egin{array}{c} {\bf Action} \\ {\it Main~Goal} \end{array}$ | | Score | 1° try | 2^{nd} try | 3^{rd} try |
| Navigating to the | table | 15 | | | |
| | and categorizing it correctly | 5×15 | | | |
| | ect for transportation to the cabinet | 5×50 | | | |
| | s in shelf and saying on which layer the current | | | | |
| Placing an object | - | 5×15 | | | |
| | next to similar objects on the cabinet | 5×50 | | | |
| Bonus Rewards | | | | | |
| | net door without human help | 200 | | | |
| Picking up a tiny | object | 70 | | | |
| Placing a tiny obj | ect | 30 | | | |
| Picking up a heav | y object | 70 | | | |
| Placing a heavy o | bject | 30 | | | |
| Deus Ex Machi | na Penalties | | | | |
| A human handing | an object over to the robot | 5×-50 | | | |
| A human placing | an object in the cabinet | 5×-15 | | | |
| A human placing | an object in the cabinet next to similar objects | 5×-50 | | | |
| A human pointing | g at a target location | 5×-25 | | | |
| $Special\ Penaltie$ | es & Bonuses | | | | |
| Not attending | | -500 | | | |
| Using alternative | start signal | -100 | | | |
| Outstanding perfe | ormance | 114 | | | |
| Recordings Duration (limit: 5 | 5:00 minutes) | | | | |
| Cooms man tour | | 1140 | | | |
| Score per try | | | | | |
| Score per try Total Score | | 1254 | | | |

Referee $Team\ leader$

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



| $\Gamma\!\mathrm{est}$: | Clean the Table | | | Ro | @Home |
|--|--|----------------|---------------------|--------------|--------------|
| Team name: | | | | | |
| Referee name: | | | | | |
| Action | | Score | $1^{st} 	ext{ try}$ | 2^{nd} try | 3^{rd} try |
| Main Goal | | | | | |
| Navigate to the ta | ble to pick up items | 15 | | | |
| Picking tableware | (cup, bowl) for transportation to the dishwasher | 2×40 | | | |
| Picking up a plate | for transportation to the dishwasher | 50 | | | |
| Picking up cutlery | (spoon, fork) for transportation to the dishwasher | 2×80 | | | |
| Placing the tablev | vare and cutlery inside the dishwasher | 5×50 | | | |
| Placing an item c in the dishwasher | orrectly (cleanable, convenient like a human would) | 5×50 | | | |
| Bonus Rewards | | | | | |
| Pulling out the di | shwasher rack | 100 | | | |
| Pushing in the dis | hwasher rack | 100 | | | |
| Opening the dishv | vasher door | 200 | | | |
| Closing the dishwa | asher door | 200 | | | |
| Picking up the dis | hwasher tab for transportation to the dishwasher | 100 | | | |
| Placing the dishw | asher tab inside the dishwasher's hatch intended for | 200 | | | |
| Deus Ex Machi | na Penalties | | | | |
| | | 2×-40 | | | |
| Handing plate ove | r to the robot | -50 | | | |
| Handing cutlery o | ver to the robot | 2×-80 | | | |
| | place an object in the dishwasher | 5×-50 | | | |
| $Special\ Penaltie$ | | | | | |
| Not attending | | -500 | | | |
| Using alternative | start signal | -100 | | | |
| Outstanding perfe | 9 | 170 | | | |
| Recordings | | 1,0 | | | |
| Duration (limit: 1 | 0:00 minutes) | | | | |
| Score per try | | 1705 | | | |
| Total Score | | 1875 | | | |
| Remarks: | | | | | |
| | | | | | |

 $Team\ leader$

Referee



| Test: | Enhanced General Purpose Service Ro | obot | | | @Home |
|-------------------------------|--|-----------------|---------------------|--------------|--------------|
| Team name: | - | | | | |
| ream name: | | | | | |
| Referee name: | | | | | |
| | | | | | |
| Action | | Score | 1^{st} try | 2^{nd} try | 3^{rd} try |
| Main Goal | | | | | |
| Find and clearly s | tate an encountered problem | 3×150 | | | |
| Solve a problem | | 3×650 | | | |
| Deus Ex Mach | na Penalties | | | | |
| Asking for location | _ | 3×-150 | | | |
| | nan to perform parts of the task will a | | | | |
| | eccording to similar penalties in other St | age II tests. | | | |
| Special Penaltic | $es~ {\it \& Bonuses}$ | | | | |
| Not attending | | -500 | | | |
| Using alternative | | -100 | | | |
| Outstanding perfe | ormance | 240 | | | |
| Recordings Duration (limit: 1 | .0:00 minutes) | | | | |
| Score per try | | 2400 | | | |
| Total Score | | 2640 | | | |
| Remarks: | | | | | |
| | | | | | |
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| Test: | Restaurant | @Hom |
|---------------|------------|------|
| Team name: | | |
| Referee name: | | |

| Action | Score | 1^{st} try | 2^{nd} try | 3^{rd} try |
|--|-----------------|---------------------|--------------|--------------|
| Regular Rewards | | | | |
| Detect calling or waving customer | 2×100 | | | |
| Reach a customer's table without prior guidance/training | 2×100 | | | |
| Take an order. | 2×300 | | | |
| Serve an order. | 2×300 | | | |
| Qualitative robot social performance | 50 | | | |
| Bonus Rewards | | | | |
| Use an unattached tray to transport | 2×200 | | | |
| Regular Penalties | | | | |
| Not making eye-contact when taking an order | 2×-80 | | | |
| Not reaching the bar (barman has to move from behind the bar to interact | 2×-80 | | | |
| with the robot) | | | | |
| Deus ex Machina Penalties | | | | |
| Being guided to a table | 2×-200 | | | |
| Asking the Barman to handover object to the robot | 4×-50 | | | |
| Guest needing to take the object from a tray or the robot's hand | 4×-50 | | | |
| Being told/pointed where is a table/Kitchen-bar | 2×-100 | | | |
| $Special\ Penalties\ {\mathfrak C}\ Bonuses$ | | | | |
| Not attending | -500 | | | |
| Using alternative start signal | -100 | | | |
| Outstanding performance | 205 | | | |
| Recordings | | | | |
| Duration (limit: 15:00 minutes) | | | | |
| Score per try | 2050 | | | |
| Total Score | 2255 | | | |

Remarks:

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



| Test: | Stickler for Rules | | | AC. | @Home |
|--|--|------------------------|-------------------------|--------------|--------------|
| Team name: | | | | | |
| Referee name: | | | | | |
| Action | | Score | 1^{st} \mathbf{try} | 2^{nd} try | 3^{rd} try |
| Regular Reward | | | | | |
| | reaking a house rule (indicating the rule by | , , | | | |
| take. | et, politely clarify to the guest what action he | | | | |
| | guest is following the rule. | 4×200 | | | |
| Bonus Rewards Making eye-conta broken. | ct, politely clarify to the guest what rule is | s being 4×100 | | | |
| Regular Penalti Talking to a guest | es about a rule they are not breaking | 4×-100 | | | |
| Deus ex Machin | na Penalties | | | | |
| | the robot towards a guest who is breaking a | | | | |
| | robot which rule is being broken | 4×-100 | | | |
| Special Penaltie | es & Bonuses | 500 | | | |
| Not attending Using alternative | stort signal | -500 -100 | | | |
| Outstanding perfe | | $\frac{-100}{200}$ | | | |
| Recordings | rmanee | 200 | | | |
| Duration (limit: 1 | 0:00 minutes) | | | | |
| Score per try | | 2000 | | | |
| Total Score | | 2200 | | | |
| Remarks: | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Date & time | | | Team le | eader | |

Score Shoot



| ocore or | 1000 | Robo Cup @Home |
|---------------|---------------------------------------|-------------------|
| Test: | Final Demonstration — Jury Evaluation | enome |
| Team name: | | |
| Referee name: | | |
| | | |
| Instructions: | | |
| 1 Please watc | h all demonstrations carefully | |

- 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 | Relevance/usefulness to | Elegance of | Success of |
|--------|-----------------|-------------------------|-----------------------|-----------------------|
| Team | presentation* | everyday life | overall demonstration | overall demonstration |
| | (0-10) | (0-10) | (0-10) | (0-10) |
| Fifth | | | | |
| Fourth | | | | |
| Third | | | | |
| Second | | | | |
| First | | | | |

^{*} Story telling is to be rewarded

Remarks:

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

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



| of the demonstration nstration and question se the space below "F your name ("referee: | you may ask questions. ns, please fill in the evaluation temarks:" to take notes for youname") on top of the sheet. | | |
|---|--|--|--|
| | | | |
| on to @Home for @Home / Novelty | | | |
| et | | | |
| Efficacy of on to main objective (0-10) | Elegance of solution to main objective (0-10) | Innovation/contribution of additional tasks (0-10) | Difficulty/Success of overall demonstratio (0-10) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | of the demonstration on the space below "Referee to the space below "Referee to the wing the the wi | se the space below "Remarks:" to take notes for y your name ("referee name") on top of the sheet. It is musing the "Referee" slot at the bottom. Ontribution on to @Home for @Home / Novelty of approaches in and performance in the finals et Efficacy of Elegance of solution to main objective | of the demonstration you may ask questions. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet below. Instration and questions, please fill in the evaluation sheet. Instration and questions, please fill in the evaluation sheet. Instration and question and question sheet. Instration and question and question and question sheet. Instration and question and question sheet. Instration and question sheet. Instration and question sheet. Instration and question sheet. Instration and question sheet. Instruction and questio |

 $Team\ leader$

Referee