

ROBOCUPJUNIOR ONSTAGE - SCORESHEETS 2026

<p>OnStage League Committee 2026: <i>Thundluck Sereevoravitgul (Thailand) CHAIR</i> <i>Christian Häußler (Germany)</i> <i>Olivier Marty (France)</i> <i>Oscar Shijie Song (Brazil)</i> <i>Fernanda Mizuguchi Leite (Brazil)</i> <i>Erick Sanchez Flores (Mexico)</i></p> <p>OnStage League Committee 2025: <i>Christian Häußler (Germany) CHAIR</i> <i>Nicky Hughes (UK)</i> <i>Mauricio Gutierrez (Mexico)</i> <i>Olivier Marty (France)</i> <i>Thundluck Sereevoravitgul (Thailand)</i> <i>Oscar Shijie Song (Brazil)</i></p>	<p>RoboCupJunior Execs: <i>Marek Šuppa (Slovakia)</i> <i>Margaux Edwards (Australia)</i> <i>Tatiana Pazelli (Brazil)</i> <i>Tom Linnemann (Germany)</i> <i>Christian Häußler (Germany)</i> <i>William Plummer (Australia)</i></p> <p>Trustees representing RoboCupJunior: <i>Julia Maurer (USA)</i> <i>Roberto Bonilla (USA)</i></p>
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Preface

These are the official OnStage scoresheets for RoboCupJunior 2026. They are released by the RoboCupJunior OnStage League Committee. English rubrics have priority over any translations.

Major changes from the previous years OnStage rules are written in **red**.

Please note that score sheets are public, and all comments and suggestions will be welcome. Use the RCJ forum (<https://junior.forum.robocup.org>) if you want to provide feedback.

Rubrics are made for teams to know what relevant aspects will be appreciated in terms of education by the judges at RoboCupJunior OnStage 2026. They are a useful source of information for teams.

Official RoboCupJunior site: <https://junior.robocup.org> (Click OnStage tab)

Official RoboCupJunior forum: <https://junior.forum.robocup.org/>

OnStage Overview

All teams are judged in the following areas: a Technical Description Poster, Technical Demonstration Video, Technical Interview, and an OnStage Performance. **Each area scores 100 in total and is weighted as illustrated in the chart below.**

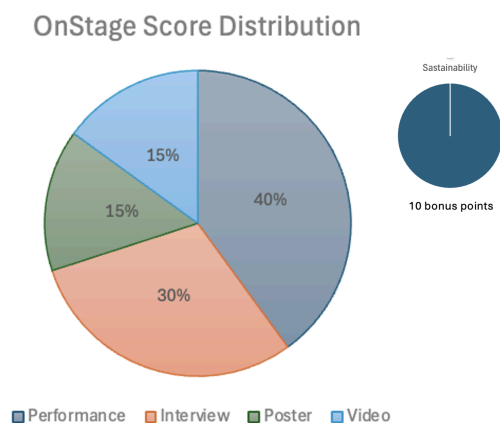


Chart: Distribution of Scores from Each Area (an additional point from the Sustainability will be added to the total)



Teams must present four of their robot(s) features throughout all elements of the competition: what the team believes are their best system/sensor integration, electromechanical design, interaction, or software solutions implemented on their robot(s).

The aim should be to present the integration of the chosen features and how the features contribute to the progression of the performance. For more information about how to choose the features, check the “How to Decide on Your OnStage Robotic Features” document at https://robocup-junior.github.io/onstage/resources/teams/how_to_features.html.

Teams should describe and provide reasoning for their four chosen features in the Technical Description Poster and during their Technical Demonstration Video, before being judged on the implementation of these features during the Performance. Teams should demonstrate their understanding of their systems in the Technical Interview.

For clarification on teams’ features, please do not hesitate to reach out to the OnStage committee using the listed communication forums.

RoboCupJunior OnStage 2026 aims to promote awareness of and encourage sustainable practices in robotics and technology. To support this goal, we have established a **Sustainability Scoring** criterion that encourages all participants to consider environmental impact when developing their projects. Sustainability will be evaluated throughout various assessments during the competition. Unlike other scoring categories that are weighted, sustainability scores are awarded as direct bonus points added to your final score. This means every sustainable choice teams make, from material selection to energy-efficient design, can boost your overall score and contribute to a better future.

Score and Weight Distribution

The total score will be calculated using the weights below:

- Technical Demonstration Video (15%)
- Technical Poster (15%)
- Technical Interview (30%)
- OnStage Performance (40%)

Total scoring = (Technical Video X 0.15) + (Technical Poster X 0.15) + (Technical Interview X 0.3) + (Performance X 0.4) + Bonus point for sustainable practices (up to 10 points)

Example scoring for three teams:

Criteria	Team 1	Team 2	Team 3
Technical Demonstration Video (15%)	90 X 0.15 = 13.5	70 X 0.15 = 10.5	50 X 0.15 = 7.5
Technical Poster (15%)	30 X 0.15 = 4.5	65 X 0.15 = 9.75	77 X 0.15 = 11.55
Technical Interview (30%)	50 X 0.3 = 15	45 X 0.3 = 13.5	80 X 0.3 = 24.0
Performance (40%)	80 X 0.4 = 32	10 X 0.4 = 4.0	30 X 0.4 = 12.0
Total Technical Score (up to 100 points)	65	27.75	55.05
Sustainability - Bonus Point (up to 10 points)	8	0	2
Total Score	65 + 8 = <u>73</u>	27.75 + 0 = <u>27.75</u>	55.05 + 2 = <u>57.05</u>



OnStage Technical Video Demonstration Score Sheet 2026

Team Name: Country/Region:

Category	EXAMPLES of how high marks may be achieved are, but not limited to:	Mark
Robotic Demonstration and Features	<p>Demonstrate a fully working robotic system, including the four chosen features. For each feature:</p> <ul style="list-style-type: none"> - Demonstrate and explain what the features are and how they work with details. - Explain how each feature is used in the performance, including when each feature happens during the performance. - Explain why these features were chosen and how they add value to overall performance. 	/30
Design Process	<p>Explain how the team designed and developed the robotic system, including electromechanical, sensor, communication, software design choices, and any use of AI:</p> <ul style="list-style-type: none"> - Explain the entire process of robot development, including the development of the software, hardware, sensors, power etc. - Describe how the team overcame challenges in their design process, especially focusing on the team’s problem-solving and teamwork. - Explain each team member’s role and the contributions to the different parts of robot design and development (electromechanical, software, etc.) 	/30
Presentation	<p>Clarity and quality of the presentation</p> <ul style="list-style-type: none"> - Presents a well-polished demonstration. Graphics and accompanying materials are clearly explained and presented. - Using text and a graphical element to highlight the point that they are explaining in the video to focus the attention of the viewers. - Effectively communicates the technical capabilities of the robot to the audience concisely and clearly. - Technically unusual, creative, or ambitious concepts in the team’s robotic performance are clearly explained. 	/20
Innovation	<p>New and/or innovative technology (Refer to “What is innovative?” in the supplemental document)</p> <ul style="list-style-type: none"> - Explain any innovation through the four chosen features. Is the innovation achieved with clear evidence of testing and research? 	/20
Total Score		/100



OnStage Technical Interview Score Sheet 2026

Team Name: **Country/Region:**

Category	EXAMPLES of how high marks may be achieved are, but not limited to:	Mark
Technical Skills	Understanding the program and how software works, <u>for example</u>, by describing: <ul style="list-style-type: none"> - The reasoning behind the chosen programming language; - How models, datasets, and/or libraries were created or adapted to address specific needs; - Strategies for writing efficient, optimized, and well-documented code, including the use of version control; 	/20
	Understanding the system and how hardware works, <u>for example</u> by describing: <ul style="list-style-type: none"> - Choice of materials, microcontrollers, sensors and actuators; - Choice of system e.g. visual/audio recognition, functional arms/hands/faces, guidance, navigation, control systems, pneumatics; - Development of custom electronics (including PCBs) or mechanical design; - Power management, regulation, and battery choices; - Complex mobility - omnidirectional/legged robots/balancing; - Stable builds, system kinematics, and design of custom components; - Sustainable design choices, including the choice of materials; - Robots can sense their environment and dynamically respond to unplanned events with appropriate actions; - Integration and communication between multiple sensor systems; - Robot-Robot and/or Human-Robot interaction design. 	/30
	Difficulty of the technology and choice of technology, <u>for example</u>, by describing: <ul style="list-style-type: none"> - The complexity of software and hardware design; - How design choices are made to ensure systems are reliable and durable; - High precision systems. 	/10
Engineering design process	How they process their work/learning, including the iteration process that the team used to develop or improve their robotic project, <u>for example</u>, by describing; <ul style="list-style-type: none"> - How did the team collaborate in the iteration process of their robot/code design? - How did the team overcome/solve the challenges they faced during software and hardware development together?; - If AI is used, how is AI involved in any part of the project development? - How did the team use clear evidence of calibration, testing, and debugging, research, and development in their robotic performance development? - the learning outcomes - what skills/competencies were gained through the project; 	/20
Teamworks	Evidence of team collaboration e.g. works contribution, solving problems together.	/8
Live Demonstration of selected feature	Live demonstration of the fully working four chosen features.	
	Feature 1:	/3
	Feature 2:	/3
	Feature 3:	/3
	Feature 4:	/3
3 - fully working without any trouble / 2 - working properly with slightly trouble / 1 partially working / 0 - totally not working		/12
Deductions <i>(At the discretion of judges)</i>	Judges believe the work was not done by team members Team members are unable to explain their technical involvement with the robot	
Total Score		/100



OnStage Technical Description Poster Score Sheet 2026

Team Name: **Country/Region:**

Category	EXAMPLES of how high marks may be achieved are, but not limited to:	Mark
Abstract and Performance Description	<ul style="list-style-type: none"> - Clear overview of the performance idea and how the chosen features add to the performance - Show the evidence of the authenticity in the project and performance development 	/40
Technology and Innovation	<p style="color: red;">Explain how the chosen features are developed, including, but not limited to:</p> <ul style="list-style-type: none"> - Clearly describe electromechanical, sensors, communication, and software choices using texts, flowcharts, and diagrams. - Clearly describe the four chosen features, with evidence of learning with texts, diagrams, and images. - Showcase the depth of understanding of the four chosen features and how the chosen features add value to the performance - Explain how the team used the design iterations (mechanical, software, electrical) in the development process, emphasizing the learning from each version. 	/40
Poster design	<ul style="list-style-type: none"> - Poster submitted using the correct format in paper format (A1) and virtually - The Poster should be presented in the style of a research poster - The Poster is easy to read and understand - The Poster is pleasing to look at (good contrast, good balance between wording and imagery) 	/20
Total Score		/100



OnStage Performance Score Sheet 2026

Team Name: **Country/Region:**

Category	EXAMPLES of how high marks may be achieved are	Mark								
Visual Impact and Quality of the Whole Performance	<p>The robotic performance is engaging. For example:</p> <ul style="list-style-type: none"> - The theme is clearly shown throughout the performance. - Performance entertains and triggers an emotional response from the audience. - The performance area and set are used effectively. - Robot costumes and props add value to the performance. 	/30								
Robotic Interaction and System Integration	<ul style="list-style-type: none"> - The performance integrates complex or challenging movements that fit the theme and add value to the performance. - The team used interesting, smooth, natural interactions between robots and/or humans that add value to the performance. - Humans on stage never distract the audience from robot actions, and their movements enhance the overall robotic performance. - All robotic systems (e.g. sensors, motors) are used effectively, in multiple ways, and throughout the performance. - Props that are interactive and integrated fully into the performance adding value to the performance. 	/30								
Effective implementation of features presented by the team.	<p>Implementation of four chosen features: Excellent execution, visibility, and impact - features work as expected and add extensive value to the performance:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 80%;">Feature 1:</td> <td style="width: 20%; text-align: right;">/10</td> </tr> <tr> <td>Feature 2:</td> <td style="text-align: right;">/10</td> </tr> <tr> <td>Feature 3:</td> <td style="text-align: right;">/10</td> </tr> <tr> <td>Feature 4:</td> <td style="text-align: right;">/10</td> </tr> </tbody> </table>	Feature 1:	/10	Feature 2:	/10	Feature 3:	/10	Feature 4:	/10	/40
Feature 1:	/10									
Feature 2:	/10									
Feature 3:	/10									
Feature 4:	/10									
Deductions: (-3 for each at the discretion of judges)	<ul style="list-style-type: none"> -3 for each unplanned human intervention inside the marked stage area (including remote or human-controlled actions) -3 for each restart -3 every 10 seconds over the allotted time (on stage or performance) <p>Performances that do not reach the minimum performance time will be scored zero</p> <p><i>If a problem is not the fault of the team, no deductions will be applied</i></p>									
Total Score		/100								

Teams that infringe the rules will be warned that such infringements will not be allowed in the second performance.



OnStage Sustainability Score Sheet 2026 *(Bonus point)*

Team Name: Country/Region:

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Category	EXAMPLES of how high marks may be achieved are, but not limited to:	Mark
Sustainability	Explain the sustainable practices used during the development of team project, such as: <ul style="list-style-type: none"> - re-use of robots or components with significant modifications - use of sustainable materials - repurpose everyday materials 	/10
Total Score		/10