



## RoboCupJunior Soccer - Rubrics

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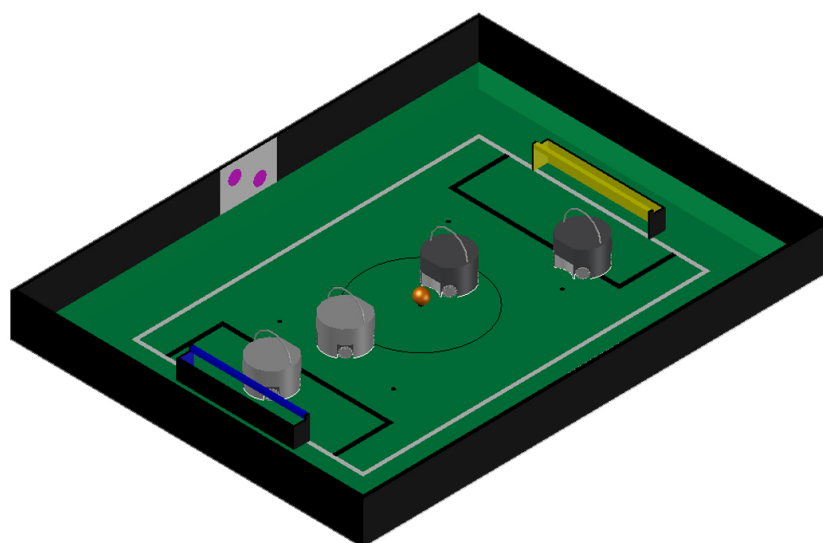
*\* RoboCup Federation Vice President representing RCJ*

These are the official Soccer rubrics for RoboCupJunior 2018. They are released by the RoboCupJunior Soccer Technical Committee. English rubrics have priority over any translations. Please note that rubrics are public for second time in 2018 so all comments and suggestions will be welcome. Use the forum (<https://junior.forum.robocup.org/c/robocupjunior-soccer>) if you want to help us to improve next year!

### Preface:

Rubrics are made for teams to know what relevant aspects will be appreciated in terms of education by OC and approved volunteers at RoboCupJunior Soccer 2018. Unlike the rules, rubrics are not mandatory to follow, they are an useful source information for teams to get the maximum points at their technical interview and what to keep in mind when preparing their poster.

Note that these rubrics will be used at RoboCupJunior Soccer to evaluate your team. These rubrics are the same for all sub-leagues in Soccer.



# Poster Rubric 2018 - Montreal - Soccer league

## 1. Description

Posters are an important part of Science, Technology, Engineering and Mathematics fields in that they are designed to share knowledge of a project or experiment on a single page (albeit a large one), rather than a multi-page document.

Posters at RoboCupJunior Soccer are designed to be a way to meet one of our primary goals: **to share with and learn from each other and grow the community's knowledge of robotics**. Each year new developments in design, construction and programming are made by teams which when shared helps develop the competition to provide better robots and challenging events. They provide inspiration for teams to grow and develop new and innovative approaches to the league.

## 2. Requirements for Poster

As part of your poster you are required to include the following components:

- **Title / Identification** – team name, country, sub-league
- **Abstract** – A summary of the entire project. The abstract should not repeat what is stated in other sections but should encapsulate critical features of all the other elements of the poster.
- **Method / Robot Production** – A description of the robots and the design / construction / programming components. Teams should indicate the programming language, sensors used, time and cost of development along with any awards won by the team in regional or national events.
- **Data / Results / Discussion** - The poster has details of the team's development and testing of the robot including any relevant data and modifications made as part of the robot's creation.
- **Photos / Images** – The poster should include images and graphics representing the team's robots and to highlight the previous components of the poster. Images and graphics should be original or should be available for non-commercial reuse with modification as per the creative commons license (<http://creativecommons.org/>).
- All information in the poster should be in English.
- **No poster** – Teams without poster will get 0 points in this rubric.

Note that the poster can be at most **36" high x 48" wide (landscape) or 91.4 cm high x 121.9 cm wide**.

## 3. Marking Rubric

Your team's poster will be marked by Members of the Soccer Organisational Committee or Local Committee Members and volunteers under guidance using the following rubric. You will be given a score out of four in each category for a maximum of 20 points.

Category	1	2	3	4
<b>Abstract</b>	<i>Abstract is missing or does not provide a summary of the poster.</i>	<i>Summary does not introduce all aspects of the poster, or repeats detailed information already in the poster.</i>	<i>Clear summary of the team and their robots. Abstract establishes each component in the poster and uses appropriate scientific language.</i>	<i>The Abstract is concise while still introducing all aspects of the poster. The intent of the abstract is to share knowledge with the reader.</i>
<b>Method / Production</b>	<i>Very little to no information is supplied about the construction of the robot.</i>	<i>Aspects of the robots production is not mentioned on the robots, e.g. sensors, motors, programming, construction materials,</i>	<i>Clear description of the production process of the robot. Section contains all required aspects as listed in the description. Section is</i>	<i>The method / production section has the clear intent of sharing all knowledge of the team's development process to</i>



		<i>time and cost of development.</i>	<i>organised in a logical sequence (timeline or clear sections)</i>	<i>improve the development of the community. Information is clearly posted with all details of the robot's components and key programming developments.</i>
<b>Data / Results / Discussion</b>	<i>No data is displayed or has no relevance to the team's project development.</i>	<i>Some data or results from testing is displayed on the poster but not major modifications based upon the testing is mentioned.</i>	<i>Clear display of data / information detailing testing and modifications made during the construction of the robot as a result of testing. Use of graphs or tables for displaying data.</i>	<i>The data displayed in the poster demonstrates a clear understanding of the link between testing, evaluation and modification based upon the testing.</i>
<b>Photos / Graphics</b>	<i>Images and photographs are out of focus and do not support the poster's intent.</i>	<i>Some photographs and images are not labelled or cited.</i>	<i>Photos and graphics are relevant to each section of the poster. Images are appropriately labelled, and cited based on the photographer/creator, or appropriately referenced if sourced online.</i>	<i>Photos and graphics are well composed and designed, in clear focus and with a consistency in colour palette/theme.</i>
<b>Layout / Design</b>	<i>Multiple aspects of the poster do not follow a logical sequence and contain significant spelling and grammatical errors</i>	<i>Aspects of the poster layout does not follow a logical sequence. Poster contains some spelling or grammatical errors.</i>	<i>The poster has a clear and logical layout. Information is easy to access for the viewer, graphics, images and text is appropriately positioned. Font size is consistent and spelling is accurate.</i>	<i>The poster contains graphics and design which is original work of the team and effectively highlights the student's creativity and the theme of their team.</i>

**4. Evaluation**

Team name \_\_\_\_\_ Team code \_\_\_\_\_

Country \_\_\_\_\_ Sub-league \_\_\_\_\_

Evaluator/s \_\_\_\_\_

Category	Abstract	Method / Production	Data / Results / Discussion	Photos / Graphics	Layout / Design	TOTAL
Points						

**5. Notes**

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Team Name / ID: \_\_\_\_\_ Country: \_\_\_\_\_

Lightweight / Standard

Presentation	1	2	3	4
<b>Team Dynamic</b>	Team demonstrates little understanding of how the work was done	Multiple members have contributed, but distribution of work was uneven	Members have all contributed, and all have defined roles	Members understand their teammate's strengths and respect one another
<b>Game Strategy</b>	The team cannot explain their strategy and/or the logic used by their robot	The team has a strategy that allows them to follow the basic rules (staying in bounds, etc.)	The team employs advanced strategies on the field (for example, tracking the other robots)	The team uses novel strategies on the playing field and can explain the code used to implement those strategies
<b>Use of Sensors</b>	Limited sensor use and simplistic behavior (robot basically just follows ball)	Limited sensor use with more advanced implementation (robot knows if out of bounds, etc)	Use of advanced sensors with appropriate algorithms	Use of custom sensors and/or custom sensor components (for example, parabolic mirrors)
<b>Chassis Design</b>	Chassis was purchased off-the-shelf with minimal modifications	Chassis has stability problems, or is an off-the-shelf model that has been significantly modified	Chassis is robust, self-designed, and self-built	Robust, self-designed, and self-built chassis that includes unique and/or novel features
<b>Problem Solving</b>	Members cannot explain problems that had to be overcome during their process	Members can identify problems that they faced, but cannot explain the solution	Members show evidence of discovering problems and finding solutions for them	Members understand that problem solving is ongoing, and can identify things they still need to work on

**On-field**

<b>Professionalism</b>	Members display poor sportsmanship towards opponents	Members are fair to opponents, but are overly aggressive and/or handle negative situations poorly	The team conducts themselves professionally in all situations	Team members go out of their way to improve the experience of their opponents
<b>Movement</b>	Robot has difficulty moving around the field	Robot has difficulty staying in bounds	Robot can successfully navigate the field and stay in bounds	displays greater maneuverability/agility than other robots while staying in bounds
<b>Ball Handling</b>	Robot has difficulty locating the ball	Robot has difficulty maintaining possession of the ball	Robot can easily locate and control the ball	Robot reliably shoots the ball into the opponent's goal

Total Score:

Judge Name: