Demo Leagu

The Demo robotics league has established a set of rules designed to ensure the highest standards of innovation, professionalism, and interdisciplinary collaboration among participating teams. These rules emphasize the importance of technological readiness, presentation quality, and the integration of AI technologies, reflecting the league's dedication to advancing the frontiers of robotics.

Rules are as follows:

1. **Innovation and Creativity:**

- All robots competing in the league must demonstrate innovative design or creative functionality, showcasing advancements or unique features in the field of robotics.

- Teams are encouraged to push the boundaries of traditional robotic applications and present novel concepts that contribute to the evolution of robotics technology.

2. **Teamwork Requirement:**

- Participation in the league requires collaborative effort from a designated team, emphasizing the importance of teamwork in the development and presentation of robotic creations.

- Each participating team should consist of individuals with diverse skill sets, fostering a multidisciplinary approach to robot design and implementation.

3. **Technology Readiness Level (TRL) Requirement:**

- All robots entering the competition must meet a minimum Technology Readiness Level (TRL) of 6 or higher to ensure that they have undergone significant testing and validation in relevant environments.

- Robots with a TRL lower than 6 will result in a negative point, highlighting the importance of presenting thoroughly validated robotic systems.

- This requirement ensures that the robots presented in the league have advanced beyond basic concept or prototype stages, demonstrating a certain level of maturity and functional readiness.

4. **Comprehensive Planning and Management:**

- Each participating team must present a well-defined business plan outlining the commercial viability and market potential of their robotic creation.

- A system engineering plan detailing the technical architecture, integration, and validation strategies for the robot must be provided to demonstrate a systematic approach to design and development.

- Teams should also submit a financial management plan highlighting the cost analysis, budget allocation, and funding strategy for their robotic project.
- Furthermore, a project management plan outlining the scheduling, resource allocation, risk assessment, and milestone tracking for the robot's development and deployment should also be presented.

5. **Sponsorship Contracts:**

- Teams are encouraged to secure sponsorship contracts for their robotic projects, demonstrating their ability to attract support and investment from external sources.
- Any existing sponsorship contracts can be considered as a positive point during the evaluation process, highlighting the team's capability to gain industry recognition and financial backing for their robotic endeavors.

6. **Research Contributions and Intellectual Property:**

- Teams have the opportunity to earn positive points by showcasing published papers or registered patents related to their robotic projects, with the impact factor of the papers taken into consideration.
- The impact factor of any published papers or patents will be assessed, with higher impact factors garnering greater recognition and positive points for the team's contribution to the field of robotics.

7. **Presentation Excellence and Professionalism:**

- Each team must deliver a comprehensive and engaging presentation highlighting the design, functionality, and real-world applications of their robotic project.
- The overall quality of the presentation, including visual aids, communication skills, and the ability to articulate the technological and commercial value of the robot, will be evaluated and scored.

8. **Technological Innovation and Utilization of AI Technology:**

- Teams utilizing AI technology instead of traditional programming methods in the development of their robots will earn positive points, highlighting their commitment to leveraging advanced and unconventional approaches in robotics.

9. **Multidisciplinary Integration:**

- Each team must provide documentation demonstrating the integration of diverse knowledge domains, including but not limited to electronics, mechanics, computer science, and art, in the design and development of their robotic projects.

- Juries may assess and judge each knowledge domain separately, emphasizing the importance of a holistic and integrated approach to robotics that considers diverse disciplines.

10. Assessment Details and Team Presence:

- The Technical Committee will provide detailed assessment forms and assign weightings to each section for the evaluation of participating robots.

- Each team will be allocated individual presentation times, during which they must effectively showcase their robot and its attributes to the judges and audience.

- Additionally, at least one representative from each team is required to be present at their respective booth throughout the event, ensuring accessibility for inquiries and discussions with visitors.

11. Evaluation Process and Project Presentation:

- Teams are required to submit a comprehensive and detailed technical report for evaluation by the technical committee.

- Upon approval by the technical committee, teams will be accepted as qualified participants in the competition.

- Each team will be provided with a booth equipped with necessary facilities for presenting their project during the competition.

- A designated time slot will be allocated to each team to utilize for delivering a brief seminar about their project, effectively introducing it to the judges and audience.