

Mini-SUMO Robot Contest - Amended

The Mini-SUMO Robot Contest requires the member to build an autonomous self-propelled or sensing robot, designed to force another SUMO Robot off a four (4) foot diameter circle. The competition circle will be a flat black, 4 foot in diameter, surrounded by a two-inch (2") wide (painted or taped) flat, white ring. When the SUMO falls off of the surface of the competition board, it will lose the heat.

Rules

1. The SUMO can use sensing devices to govern the motion of the SUMO and can use sensors to detect the other SUMO and/or the edge of the white circle.
2. Sumos cannot exceed 3 Kilograms in weight.
3. Sumos cannot exceed a maximum size of 20cm x 20cm x 20cm at the start of the contest. They may have attachments however that upon the start of the contest extend beyond the 20x20x20 footprint.
4. The SUMO drive wheels must be non-destructive to the playing surface.
5. The SUMO may not have a remote off/on switch.
6. The contest will be run in a double elimination tournament format for each age group.
7. At the beginning of each competition, with the power switch in the "off" position, the SUMO handler(s) will position their SUMO in the head to head position as instructed by the judges. At the command of the judge/facilitator, the handler(s) will turn the power switch to the "on" position.
8. When one SUMO causes the other SUMO to fall off of the competition board surface, that SUMO is declared the winner of that engagement.
9. If one SUMO is disabled by another, it is automatically eliminated from that round.
10. If the SUMO match continues for 3 minutes without a winner, there will be an automatic re-match. If after 3 consecutive re-matches, no winner is determined, both SUMOs will be given 5 minutes to re-program/build for a final match up. If no winner is determined from that re-match, both SUMOs will go into the loser's bracket or be eliminated from the contest.
11. If both SUMOs leave the circle at the same time, a "non-contest" is declared and the two SUMOs are repositioned and the contest begins anew.
12. Decisions of the judges are final and binding.