



Istanbul Technical University Robot Olympics 2022

Micro Sumo Category Rules

Duty Definition:

- In this category robots try to push each other outside of the dohyo in a dual match.

Success Criteria:

- When a robot push the other one out of the dohyo, it wins.

Robot Qualifications:

- 1) Robots' lengths, heights and wide's cannot exceed 5 centimeters.
- 2) Robots' dimensions cannot change through the competition.
- 3) Robots' weight cannot exceed 100 grams.
- 4) The systems which separate the other robot from the floor or intentionally damages the other robot cannot be used.

Competition:

- 5) The competition is a 3 rounds dual match between robots.
- 6) If a robot does not situate in dohyo after 3 minutes from the starting time the competitor will lose the match by 3-0.
- 7) Robots will start the first round positioned parallel to each other and symmetrical to center of the dohyo, facing opposite sides. In the second round, they positioned parallel to each other, facing the same side. In the third round they again positioned parallel to each other, facing opposite sides.
- 8) If the umpire approves that the robots can be treated, treatment is done in supervision of the umpire in at most 1 minute at the break time of the rounds but module cannot be changed.
- 9) Robots should start to move after 5 seconds from the umpire's move order. The robots which does not apply this rule, the competitor will lose the match by 3-0.

- 10) The robot which pushes the opponent robot out of the dohyo will win the round.
- 11) Referee can restart the round in the middle of the round or after watching camera records if the competitor was not able to start her/his robot properly.
- 12) The rounds which is not finished in 30 seconds will be count as draw. The rounds which is draw will be repeated
- 13) If the same round repeats three times, the weights of robots will be looked. If the weights are equal to each other, the winner will be determined by a toss-up which will be done by the umpire.
- 14) In the first stage, there will be group matches with the participation of 4 teams. Teams that will take the 1st and 2nd places will proceed to upper stage.
- 15) In case of point equality dual and triple average case will be checked.
- 16) Each competitor and his robot will be given a QR code. In order for the competitor to compete, his own QR code must match the QR code on his robot. Otherwise, the competitor will lose his right to compete and his opponent will be deemed a 3-0 winner by forfeit.