



# Istanbul Technical University Robot Olympics 2018

## Micro Sumo Category Rules

### Definition of the Task:

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

### Success Criterion:

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

### Robot Qualifications:

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

### Competition:

- 5) The competition is a 3 rounds dual match between robots.
- 6) If a robot does not situated 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 centre 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 referee 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 referee's move order. The robots which does not apply this rule 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 be 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 referee.
- 14) In the first stage, there will be group matches with the participation of 4 teams. Teams that will take the 1<sup>st</sup> and 2<sup>nd</sup> places will proceed to upper stage.
- 15) In case of point equality dual and triple average case will be checked.