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РОБОТЕХНИЧЕСКИЕ
СОРЕВНОВАНИЯ

INTERNATIONAL YOUTH ROBOTICS COMPETITIONS RTC CUP TOP LEAGUE



STATE RESEARCH CENTRE
OF THE RUSSIAN FEDERATION
CENTRAL RESEARCH AND
DEVELOPMENT INSTITUTE FOR
ROBOTICS AND TECHNICAL CYBERNETICS



МИНОБРНАУКИ
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MINISTRY OF SCIENCE AND
HIGHER EDUCATION
OF THE RUSSIAN FEDERATION



t.me/RTC_spb



rtc.ru

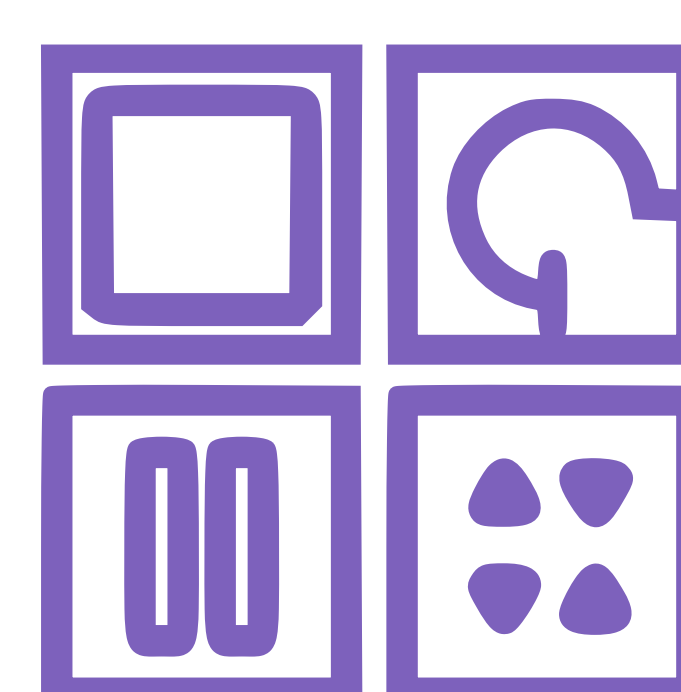


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ROBOTICS COMPETITIONS

IN THE FORM OF THEME-BASED HACKATHONS
WITH TASKS FOR THE IMPLEMENTATION OF ALGORITHMS
FOR MACHINE VISION AND ROBOT NAVIGATION



5 THEME-BASED ZONES + 5 TESTING GROUNDS+ 5 HACKATHONS
DURING THE COMPETITION, ROBOTS WILL COMPLETE A MISSION AT
A TESTING GROUND BY SEQUENTIALLY COMPLETING TASKS IN
AUTONOMOUS MODE WITHIN THE ALLOTTED TIME.

PREPARATORY STAGE

WILL START ON THE DAY OF OPENING OF THE REGISTRATION
FOR THE HACKATON
AND WILL END AT THE BEGINNING OF THE LIVE STAGE

PARTICIPANTS WILL BE MADE AWARE OF:

- GENERAL LIST OF TASKS TO BE COMPLETED AT THE TESTING GROUND;
- APPROXIMATE PARAMETERS OF SOME OBJECTS AT THE TESTING GROUND;

LIVE STAGE

DAY 1

COMPETITORS WILL GET A DESCRIPTION OF THE TESTING GROUND
AND THE MISSION TO BE COMPLETED, INCLUDING ACCESS TO THE
TESTING GROUND. TEAMS MUST INDEPENDENTLY PREPARE AND
PROGRAM THEIR ROBOT TO COMPLETE BOTH INDIVIDUAL TASKS AT
THE TESTING GROUND AND THE MISSION IN GENERAL.

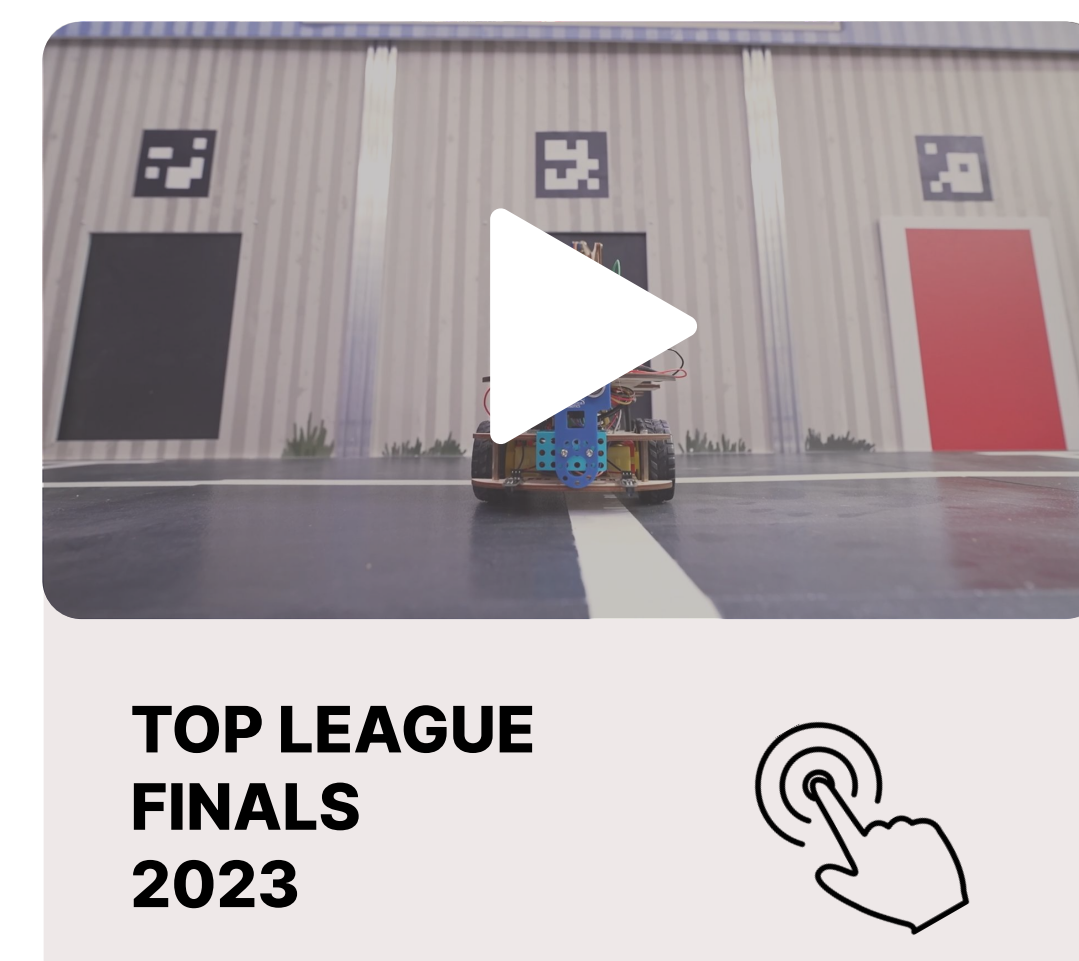
DAY 2

CENTRAL DAY OF THE COMPETITION: BASED ON THE RESULTS OF THE
ATTEMPTS MADE BY THE TEAMS, THE SCORES WILL BE SUMMED UP
AND THE WINNERS WILL BE DETERMINED.

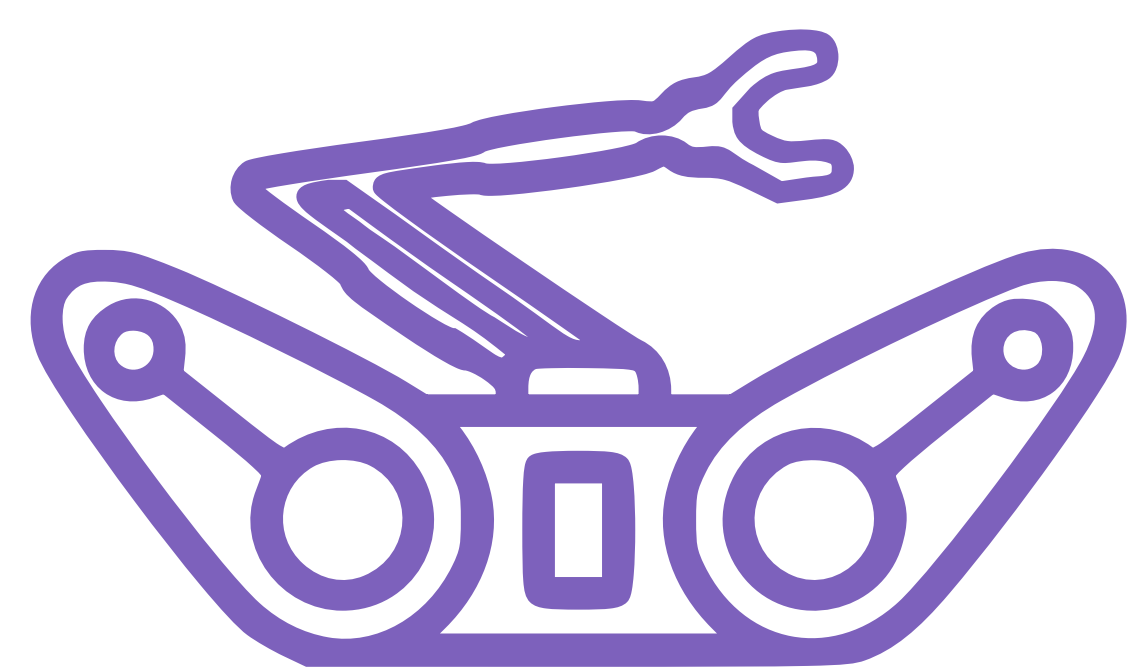


17+

STUDENTS FROM UNIVERSITIES
AND COLLEGES, LYCEUMS,
TECHNICAL SCHOOLS FROM ALL
REGIONS OF THE RUSSIAN
FEDERATION AND CIS
COUNTRIES ARE INVITED TO
PARTICIPATE.



TOP LEAGUE
FINALS
2023



COMPETITION PROCESS

COMPLETION OF EACH TASK WILL BE EVALUATED
SEPARATELY. ADDITIONAL BONUS SCORE WILL BE
ACCRUED FOR COMPLETING THE ENTIRE MISSION
INDEPENDENTLY. THE BEST ATTEMPT WILL BE
COUNTED TOWARDS THE FINAL SCORE.

2 ATTEMPTS

THE BEST ATTEMPT
WILL BE COUNTED

5 MINUTES

PER ATTEMPT
FOR EACH TEAM

1-2 DAYS

FOR TRAINING
ON THE GROUND

ROBOAERO ZONE

STARTING IN 2024, A NEW HACKATHON, ROBO-AERO,
WILL BE LAUNCHED AS PART OF RTC CUP: TOP
LEAGUE COMPETITION, WHERE INTERACTION AND
DATA EXCHANGE BETWEEN A GROUND ROBOT AND
A COPTER WILL BE IMPLEMENTED TO COMPLETE
A COMMON TASK IN AUTONOMOUS MODE.

HACKATHON MISSIONS

- CITY TRAFFIC
- HARVESTING
- DELIVERY OF MEDICINES
- OIL FIELD
- ROBOAERO



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