

Hackathon consists of two rounds: the distance round (round 1) and the final round (round 2). Round 2 is held in Moscow, in the House-Commune of MISiS.

The rules of both rounds are the same. Participants are offered one problem on the subject of Computer Vision. Depending on the statement of the problem the input data might either be images or short videos, which we will refer to as “tests” from now on in this document. The format of tests (i. e. filetype, resolution, length of videos etc) is strictly defined in the statement. For each test you should determine if it includes an event (or events) specified in the statement. Possibly, you also need to output some extra information about the event (or events). This information might include time when the event starts, length of the event (for videos) and coordinates of curves (for images). Solution checking and assessing is done automatically. For some tests it might be impossible to determine the presence or absence of the target event. In this case the test does not affect the final score (participants receives 0 points for this test).

Each round of Hackathon has two stages. At the beginning of stage 1 participants are given two sets of tests: the Training Set and the Validation Set. The Training Set has a text file attached to it, which contains an Event Map (full information about events which take place in the set). During the first stage participants will develop a program which solves the problem. The input data for the program consists of a set of tests. The output of the program should be a text file similar in format to the Event Map. Participants are encouraged to run their program on the Validation Set and then submit the output text file of the program to the online judge system. This way participants will find out their final score for the task. Information about which events were detected incorrectly by the program is not accessible. Participants can see their position in the rating table during stage 1.

At stage 2 participants receive one more test set (the Final Test Set) and run their program on it. This test set is considerably bigger than the Training Set and The Validation Set. At this stage participants cannot rewrite their program or manually change the output text file. Participant can only submit the output text file of their program to the online judge system. Participants manually changing the output text file during stage 2 will be disqualified. Participants do not know the verdict of the online judge system at stage 2, except when an invalid file was submitted. Participants can submit as many output text files as they like. However, only the last valid output text file will be considered.

The jury reserves the right to run participants' programs on computer in their presence (using teamviewer or a similar program at round 1).

During stage 1 and stage 2 of round 2 participants are expected to prepare a presentation about their method of solving the problem. This presentation includes algorithms, methods (functions), libraries which were utilized in their program. The presentation should also include the complexity and the runtime of the program. The

jury might ask participants to provide details about their computer which might affect the runtime of the program.

After the end of stage 2 the rating table (standings) is displayed and participants learn their position in the table. The rating table is based only on the results of the submissions of stage 2 (the output text file under the Validation Set from stage 1 will be ignored). Then the best teams are selected based on the rating table. High-performing teams will give a presentation on the stage, best-performing teams will receive prizes.