

ARTIFICIAL INTELLIGENCE IN TRANSPORTATION COMPETITION SPECIFICATIONS

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VERSIONS			
Version	Date	Explanation	Changes
1.	01.10.2022	2023 First Version	-

1 Objective of the Competition

Development and production of Artificial Intelligence (AI) technologies are important for the future of our country. AI competition is organized to find solutions for problems that may be encountered in this field and to increase knowledge and qualified manpower.

2 Definition of the Competition

Research studies are carried out to increase the environmental awareness of flying cars by evaluating the sensor and camera data of flying cars. In this context, there is a need to detect objects using sub-vision camera images to prevent accidents that may be encountered by flying cars. Task in this competition is to detect vehicle and human objects by using the camera data of the flying car with the Artificial Intelligence based object detection system you will develop. In addition, vehicles need visual landing assistant as they land and take off from areas in the city. This assistant needs to identify the Flying Car Park (UAP) and Flying Ambulance Landing (UAI) areas as shown in Figure 1. After determining the UAP and UAI areas, it should be determined whether these areas are suitable for landing. Verify that there are no people, vehicles or any foreign objects in this area. In addition, it should be considered that flying cars serve at night, during the day and in harsh weather conditions (rain, fog, snow).

Teams can train and test their models by using their own data set or data sets they have gathered from different sources. Detailed description of the data set to be used for the competition (specifications such as the given acquisition height, camera resolution, minimum object dimensions, etc.) will be shared in the technical specification document. Also, a sample data set will be provided to the competing teams. Within the scope of the competition, the teams will detect objects based on previously recorded video imagery. The videos to be used for evaluation purposes during the competition will be pre-labeled and team scores will be based on the amount of correct detection they make within allocated time.



Figure 1. Sample UAP and UAI Areas

3 Application of the Competition

Applications must be submitted to the competition via the official website of the TEKNOFEST Aviation, Space and Technology Festival (www.teknofest.org) by the November 30, 2022, 23:59 (GMT+3). Applications made after the specified date will not be accepted. Team and individual applications are accepted.

4 Details of the Competition

4.1 Equipment to be Used During the Competition

During the competition, all teams will run their software on their own computers. Teams will be allowed to prepare their computers before the competition. Teams will connect to the competition server on the local network during the competition and send the object prediction results. Thus, computers to be used during the competition must have ethernet inputs. Teams are expected to provide their own hardware such as monitor, keyboard and mouse.

4.2 Types of Objects to Defect

Object types are the types of objects expected to be detected, which can be found in videos, sample videos or training videos to be broadcast during the competition. The types of objects that can be detected are as follows:

- Vehicle
- Human
- Flying Car Parking (UAP)
 - Landing Suitability Status
- Flying Ambulance Landing (UAI)
 - o Landing Suitability Status

The classes expected to be determined are detailed in Table 1. Object Class Details

Table 1. Object Class Details

Object Class	ClassI D	Landing Suitability Status ¹	Details
Vehicle	0	-1	All types of objects listed below should be considered as vehicles. 1. Motor vehicles a. Automobiles, b. Motorcycles, c. Buses, d. Trucks, e. Other motor vehicles.

			2. Rail vehicles a. Trains i. Locomotives ii. Wagons b. Trams c. Monorails d. Funicular 3. All watercraft
Human	1	-1	Standing or sitting people should both be considered.
Flying Car Parking (UAP)	2	0, 1	Designated flying car parking space (Figure 1).
Flying Ambulance Landing (UAI)	3	0, 1	Designated flying ambulance landing space (Figure 1).

After determining the UAP and UAI areas, their suitability for landing should be determined. For example, if there is no person or vehicle or different object in the UAP area, this area is suitable for landing, if there is a person or vehicle or different object, it is not suitable for landing. Landing suitability statuses and the corresponding values are shown in Table 2.

Table 2. Landing Status ID Information for UAP and UAI Classes

Landing Suitability Status ID	Landing Suitability Status
0	Not Suitable
1	Suitable
-1	Not a Landing Area

4.3 Competition Sessions

The competition consists of four sessions. A different video will be sent to the competition teams at each session. A local network will be established in the competition area with a server where evaluation videos will be distributed, and answers will be collected. Competitors will connect to this network with an ethernet cable, download evaluation videos from the server and upload their answers to the server again The specified local network will not have an internet connection and the competitors' systems will not be allowed to connect to the internet. Technical details about making connections will be specified during the competition and the competition technical team will assist the competitors in connecting to the network. Each session will take a total of 2 hours with 30 minutes of pre-competition preparation and 1.5- hour competition time. With the start of the 1.5-hour competition period, the competition videos with a total length

of 10 minutes will be accessible. Before the end of the competition, teams that complete the session will upload the solution files containing the information of the objects they detected to the server and these solution files will be evaluated by the committee. After the end of the specified 1.5-hour competition period, objects detected will not be accepted and will not be evaluated.

4.4 Training, Test and Competition Videos

The competition committee will share a sample video before the competition. Labeled object data will be provided in this video to demonstrate the detection scheme. The competition board will also provide sample videos for competitors to label and use them. Video specifications will be announced in the technical specification document. During the preparation process, teams can also use video data they have obtained or collected in other ways.

4.5 Object Detection Information Standarts

During the competition, the teams must send the objects they detect to the competition server in JSON format. Detailed information about sending the detected objects to the server will be shared in the competition technical specifications. The content of the JSON file that the teams are expected to create and send to the server during the competition will be explained in the competition technical specifications.

5 Accuracy Assessment

Scoring details and systematics will be explained in the technical specifications of the competition.

6 Schedule, Scoring and Evaluation

Table 3. Competition Schedule

Date	Explanation
30.11.2022	Application Deadline
09.12.2022	Announcement of Technical Specification
9-30.12.2022	Delivery of Sample Training Video (Unlabeled)
12.12.2022 - 17:00	Preliminary Design Report Deadline
27.12.2022	Announcement of the Teams Passing the 1st Preliminary Qualification According to the Results of the Preliminary Design Report
05-18.12.2022	Q&A Meeting with Teams
26.01.2023	Online Competition Simulation
21 Şubat 2023	Announcement of the Teams Passing the 2nd Preliminary 20.07.2022 Qualification Based on the Results of the Online Competition Simulation
27 April - 1 May 2023	Competition Date
27 April - 1 May 2023	Final Design Report Deadline / TEKNOFEST İSTANBUL

6.1 Application Deadline

Applications for the competition will be made on the official website of TEKNOFEST Aviation, Aerospace and Technology Festival (www.teknofest.org) until November 30, 2022, 23:59 (GMT+3) and applications will be accepted as teams. Competition teams can be groups or individual.

6.2 Question and Aswer Meeting with Teams

A question and answer meeting will be held with the teams after the applications are completed.

6.3 Announcement of the Technical Specifications

The technical specification is a document in which detailed technical information about the competition is given. Technical information such as infrastructures, labeling formats, scoring details will be included in this document. Preliminary Design and Critical Design Report formats will be shared in the technical specifications.

6.4 Delivery of Sample Training Video (Unlabeled)

After the applications are completed, the sample video that can be used during the competition will be shared with the teams. Teams can train or test their systems on this video.

6.5 Preliminary Design Report (PDR)

Teams should send the Pre-design report, which includes the system and software they intend to develop, to the competition commission until the specified date and in accordance with the report format that will be shared with the technical specifications. These submitted reports will be reviewed by the competitor commissions and the teams that are eligible to continue the competition will be announced. Those who are eliminated by the team report commissions who do not send a preliminary design will not be able to participate in the competition.

Report submission must be uploaded via the CMS system until 17:00 on the day specified in the calendar. The objection process is notified to the teams by the TEKNOFEST competitions committee by e-mail sent after the results are announced. TEKNOFEST Competitions Committee reserves the right to make changes in the calendar and hours.

6.6 Announcement of Teams that have qualified for the Preliminary Round according to PDR Results

Preliminary Design Reports will be evaluated, and pre-qualification results will be announced. Teams who pass the preliminary design stage will be able to continue the other stages of the competition.

6.7 Question and Answer Meeting with Teams

A question-and-answer meeting will be held to answer questions about the competition with the competitors who have passed the pre-design stage. Teams will be informed about changes in the meeting date and the meeting environment.

6.8 Online Competition Simulation

Competitor candidates will be subjected to an online competition simulation, the details of which will be explained by the Competition Committee in the technical specifications. In this evaluation, the teams that could not connect to the server, did not send results, and did not exceed the determined minimum success threshold will not be able to participate in the competition.

6.9 Announcement of Teams that have qualified for the 2nd Pre-Selection Round according to Online Competition Simulation Results

Online Competition Simulation results will be evaluated and the results of the 2nd pre-selection will be announced. Candidates who pass the Online Competition Simulation phase will be eligible to participate in the contest.

6.10 Competition

Teams will set up their systems in the competition area on the day of the competition and will test their systems with the competition referee team. Teams that can operate their systems will be able to attend the competition sessions. If teams cannot attend one of the sessions for any reason or cannot run their systems on time, they can participate in other sessions when their systems are ready, but they cannot get points for sessions they cannot attend. Exact time and date of the competition sessions will be announced.

6.11 Final Design Report

Competitor candidates will create and send the final design report of their systems. In the report, the achievements and methods in the development process will be included in detail. The format of the final design report will be shared with the teams along with the technical specifications.

6.12 TEKNOFEST

After the competitions are completed, the teams that meet the success criteria to be determined by the Competition Commission will be invited to the event as competitors. In the event; competition results, various trainings and presentations of the competitors will take place.

7 Prizes

After the competition, the competitors who are in the award ranking will be awarded according to their rank as follows. The awards will be given to the teams and there will be no individual rewards. Payments will be made to the advisor of the winning team. A payment of 2,000.00 ½ will be made to the advisor of ranked teams. If the consultant does not come to the competition area, the consultant award will not be given. In addition, one of the finalist teams will be awarded the best team spirit award.

First Prize: 100.000 TL

Second Prize: 80.000 TL

• Third Prize: 60.000 TL

The Best Team Spirit Award: It is the award given to the teams that aim to finalize the tasks undertaken in the competition area and the business plans in the field in the best way, and to the teams that reflect their energies in the best way, regardless of whether they achieve success/shooting in this goal. Fieldwork as a team, effort in the field, skills, communication within and between teams, etc. assessment will be made on the basis of their status. The specified award is for prestige purposes and has no monetary value.

Teams will earn points at the end of each session. The ratio of this score to the total possible score at a session will show the teams' percentage of points in the session. For a team to be considered successful, the average of the percentage points obtained in all sessions must exceed 70%. Awards will be given to the teams that meet the success criteria. An honorable mention award is given if the criteria for success are not met.

8 Conditions For Participation In The Competition

- High school, undergraduate and graduate students can participate in the competition individually or as a team.
- The graduate category includes high school graduates and university graduates.
- High school graduates are required to pass a maximum of 3 (three) years from the date of graduation.
- Teams must consist of a maximum of five people. Teams can only take one person as an advisor.
- Teams can be formed from a single school or as a mixed team with multiple schools and levels, e.g. high school and undergraduate/graduate students can be in the same team.
- On a date determined by the TEKNOFEST Competitions Coordinatorship, approved student documents must be submitted for students, and a certified document showing that they are a lecturer/staff, research assistant or teacher for advisors. One person can be a member of a single team only, i.e. one person cannot be a member for multiple teams.
- The same team members can apply to other competitions organized within the scope of TEKNOFEST with different projects.
- Only one category or one competition can be applied for with the same project. Applications of teams or individuals applying for the same project in a different category or a different competition organized within the scope of TEKNOFEST will be deemed invalid.
- High school level teams must have an advisor. The advisors must upload a document stating that they will serve as the advisor to fulfill the advisory duties of their teams. This document must be uploaded with the Preliminary Design Report with a wet signature.
- Undergraduate and graduate student-level (including graduated undergraduate and graduate students) teams can have a lecturer/member or research assistant as an advisor.
- Our teams that will compete at the university level and above do not have to get a consultant. If there is a team counselor in applications at the university level and above, it is obligatory to send a consultancy document.

- Persons who will apply individually with their project must apply by creating a one-person team through the team building module in the CMS system.
- The competitor cannot participate with the exact same and/or copy report of the project report he/she has participated in before. In case of quoting from the reports published on www.teknofest.org within the scope of the previous year's report, the source should be indicated. You can find the source specification format under the heading of general rules in the specification.
- All notifications to be made by the TEKNOFEST competitions committee throughout the competition process will be made to the person designated as the team's communication officer. For this reason, each team should designate a contact person.
- The follow-up of the processes (Application, Report Upload Deadline, Form to be filled, etc.) is the duty of the communication officer, and TEKNOFEST competitions committee is not responsible for delays and/or disruptions caused by the communication officer.
- Between the application dates, the team captain/advisor registers through the system, registers the consultant and/or team captain/team members, if any, to the system accurately and completely, and sends an invitation to the advisor and members' e-mails, if any. The member to whom the invitation is sent, logs in to the Application system, accepts the invitation from the "My Team Information" section and the registration is completed. Otherwise, the registration will not be completed.
- Competitors who have completed the team formation process must apply to the competition in accordance with their project.
- All necessary processes within the scope of the competition (Application, Report Receipt, Report Results, Member addition/removal procedures, etc.) are done through the CMS system. Teams are required to follow their processes through the CMS system.
- Member addition/removal procedures are carried out until a date determined by the TEKNOFEST Competitions Coordinatorship during the competition process. No changes can be made to teams after the specified date.
- During the competition process, the processes of applying via CMS, uploading reports, objection process, filling out forms are under the authority of the team captain and/or the consultant, and the competition processes are managed through these people.
- Advisors must upload the document showing that they are teachers/educators/academicians in their respective institutions to the systems along with the Pre-Design Report.
- There must be a team captain in the team. Our individual applicants must choose the team role as team captain.
- Advisors should not be added as team members. Each team can have at most one advisor. Applications of teams with more than one advisor will be disqualified.
- The role of the consultant; to help students plan their own education, to guide them in

academic, social and cultural matters, to help prepare the appropriate environment for the development of the student's personality as a whole with its mental, social and emotional aspects, etc. duties and services. The role of the advisor in the team is to provide the academic support needed for the project and guide the team members to find solutions to their problems.

- Transportation and accommodation support to be provided to the finalist teams is limited. The number of people to be supported is 3 people (including the consultant) per team, and TEKNOFEST Competitions Committee has the right to make changes.
- The consultant undertakes to support the team until the final stage and to be with the team during the final stage. In projects that reach the final stage, it is obligatory for high school teams to be in the field with their advisors.
- University and higher competitors do not have to come to the final stage with their advisor.
- During the competition process, your education level at the time you applied will be considered.
- TEKNOFEST Competitions Committee has the authority to limit the number of members to be in the festival area. In case of restrictions, the committee will inform.
- The competitor will be able to participate in the competition by reading and approving all the explanations and participation conditions about the competition before applying.
- Applicants to the competition are deemed to have accepted all the conditions in the specification.

9. General Rules

- Objection cases consist of two headings: Report Objections and Final Stage Objections. Report
 objections are received via CMS within 48 hours after the report results are announced. The
 objections of the teams that cannot make their objections in accordance with the regulation in the
 link https://teknofest.org/tr/competitions/objection/ within the period announced by the
 TEKNOFEST Competitions Coordinator will not be accepted. The objections of the teams are sent
 to different referee committees and re-evaluated.
- Final Stage Objections can be made during and after the competition. Objections to be made after the competition must be made within 48 hours after the rankings are announced. Objections made other than in violation of the specification and rule violations will not be accepted. For evaluations based on quantitative criteria, no objection will be received and no final or presentation evaluation will be made. These objections should be sent to iletisim@teknofest.org in the form of a petition with their justifications. Objections made in accordance with the rules will be examined by the TEKNOFEST Competitions Coordinator.
- Report Evaluation results after it was announced then every from the team official objection of persons and reasons in writing to transmit required. objections www.t3kys.com at is taken.
- The objection process must be made until the date that the competition committee will transmit after the competition results are announced. Otherwise, objections will not be considered.
- Appeals must be made by the team advisor or team captain. Objections that are not submitted within the specified process will not be considered.
- The advisor's task; to students own education and training so that they can plan about helper be academic, social and cultural on matters path to show, mental, social and emotional aspects helping

- to prepare the appropriate environment for the student's personality to develop as a whole, etc. task and services. The role of the advisor in the team is to provide the academic support needed for the project. its members to your problems solution to be able to produce for path is to show.
- Consultant terms; Teachers/academics working in education/training institutions as consultants or engineers/experts who continue their careers in the relevant field, etc. Individuals can take part in the team as consultants.
- The subject of the competition is the result of the effort of the competitor/competitors in the team, the intellectual work reflects the characteristics of the team members and the Consultant will not be accepted as the owner of the work. The project idea has to be created by the team members, and the consultants only need to give direction at this stage. If the project owner is determined to be a consultant, the application will be deemed invalid.
- In their report, our teams that have benefited from the previous year's reports on our website should indicate on the relevant page that they are quoting. State the explanation after the quoted sentence required. QUOTATION FORMAT: "Excerpt Sentence (s) made " (Year, Competition Name, Category, Team Name) EXAMPLE EXAMPLE: "The lack of determination of the earthquake victim's whereabouts in the debris is the most important problem that slows down the debris removal and earthquake victim search efforts." (2021, Technology Contest for the Benefit of Humanity, Disaster Management, Team X)
- Each competitor is obliged to take the necessary safety measures and to show the care expected of her/him towards her surroundings while competition.
- The Turkish Technology Team (T3) Foundation and the organization committee reserve the right to
 make any changes in this specification in order to ensure fair results, in order for the competitions to
 be held within objective criteria, to better meet all kinds of needs of the competitors, to ensure safety
 measures and to make the competition conditions work.
- T3 Foundation and the organizing committee reserve the right to cancel the competitions if, as a
 result of the evaluations to be made after the application process, there are not enough applicants
 with the necessary technical knowledge and skills to participate in the competitions.
- TEKNOFEST Safety and Security Specifications are communicated to all competitors, their
 delegations and relevant persons. All teams that will compete within the scope of the organization
 are obliged to meet the safety conditions specified in the TEKNOFEST Safety and Security
 Specifications, specific to the competition they compete in. In this respect, it is the competitors'
 responsibility to take additional measures arising from the systems used, except for those in the said
 safety instruction.
- T3 Foundation and the organization committee, the teams that are determined not to meet the
 conditions specified in the TEKNOFEST Security and Safety Specifications, in order for the
 organization to take place in a safe environment. competition female leaving right hidden amount.
 of the competitors, of their delegations and relating to of people during the competitions born
 violations as a result may occur from damages T3 Foundation and organization officials is not
 responsible.
- Regarding the competition, the competitor accepts all kinds of written or visual promotions, publications, social media and internet broadcasts to be made before or after the competition by the T3 Foundation and/or TEKNOFEST. and commits. In addition, the competitor is entitled to the rights of processing, dissemination, reproduction, representation, visual or auditory means and the right to transmit to the public on the designs, codes and scientific and artistic work produced or contributed to the production of T3 Foundation / TEKNOFEST without any time limit. e, within the framework of the T3 Foundation 's open source policy. relating to your work It accepts, declares and undertakes that it consents to be presented to the public and used and developed by the relevant persons by reference. T3 Foundation reserves the right to make changes on the work when necessary and to make all intellectual property available to the public (limited to what it shares with the T3

- Foundation) as and when it deems appropriate.
- Regarding the rights on the part of the competitor's work that it has transferred to the T3 Foundation, the Industrial Property Law No. 6769 and other legal provisions regulating Intellectual Property Rights legislation in the framework of Turkish Patent and Trademark Authority or WIPO (World Intellectual property Organization) before Provided that T3 Foundation obtains written permission, it can make a registration or protection application, T3 Foundation and T3 Foundation will not prevent its use by applying any prohibition against third parties who benefit within the scope of open source code policy, not apply for protection measures within the scope of legal legislation, allegation of violation accepts and undertakes that he/she will not make a request for the cessation of use.
- The ideas shared in the previous year's reports should not be used directly. Necessary legal actions will be taken against the teams that are found to have used the idea directly, and it will be ensured that they cannot apply to the competitions organized within the scope of TEKNOFEST for at least 2 years.
- TEKNOFEST suffer any damage due to the competitor's violation of the intellectual property rights of any product, such damages will be covered by the relevant team (including the consultant).
- A Certificate of Participation will be given to all finalist teams entitled to participate in the competition.

10. ETHICS

- Festival in the field or competition process along (report steps, evaluation process etc.) society immoral a situation, verb, word, etc. behavior exhibited as soon as it is detected, the legal process against the person(s) who committed this act will be promptly initiated and the team will be barred from participating in any organization and event operating within the Turkish Technology Team Foundation for at least 2 years. The points to be considered in the language used in all communication with the TEKNOFEST Competitions Committee are as follows;
 - Rude and discourteous promise and from behavior should be avoided,
 - Insult, threatening and bad from the words should be avoided,
 - e-mail , facebook , skype , messenger , whatsapp , twitter etc. as social media with tools Directly targeted insults should be avoided,
 - Petition and in your objections, spelling to the rules and to the style Caution to be made required.
 - Situations, verbs, words, etc. that will affect the functioning and motivation of other teams in the festival area. behavior should not be exhibited.
 - Accommodation of your services given country and around social peace of mind eyelash before should be treated. Otherwise, the initiation of legal proceedings against the person will be carried out by the relevant institutions.
 - In the project and product development process, the necessary equipment and materials are backed up/stored in advance, taking into account all kinds of negativities, and part replacement in case of a possible negativity. your team under the responsibility whether other a from the team product supply failure to provide required.
 - In the festival area and in all kinds of services provided by TEKNOFEST, attention should be paid to the fact that it behaves in accordance with the requirements of the service in an impartial manner, without 16 discrimination of language, religion, philosophical belief, political thought, race, age and gender, and without causing behaviors and practices that prevent equal opportunities.
 - Taken not to use or allow TEKNOFEST and other company-institution-organization goods and resources to be used for purposes other than their purposes and service requirements, and not to

- waste these goods and resources.
- To support the works carried out to facilitate the operation of the festival, to meet their needs in the most effective, fast and efficient way, to increase the service quality and to increase the festival satisfaction.
- It affects or seems to affect the impartial and objective performance of the contestants in the festival
 area. and themselves, to their relatives, to your friends or in a relationship located person or should
 be careful about all kinds of benefits provided to organizations, financial or other obligations
 related to them and similar personal interests, and take the necessary measures to avoid conflicts
 of interest.
- Avoiding waste and extravagance in the use of TEKNOFEST, buildings and vehicles, and other
 public goods and resources, shift time, public goods, sources, labor and possibilities while using
 effective, efficient and frugal behavior is required.
- TEKNOFEST team members can be accountable for their responsibilities and obligations during their performance, and be open and ready for institutional evaluation and audit, take the necessary measures to prevent transactions or actions and corruption that are not in accordance with the objectives and policies of their institutions, and train their personnel on the principles of ethical behavior, it is necessary to monitor whether the principles are followed and to guide ethical behavior.
- Set members' duties in its place while bringing binding the institutions they work with by exceeding their authority. statement, commitment, promise or in attempts absence, deceptive and real female statement not giving required.

Statement of Responsibility

• T3 Foundation and TEKNOFEST are not responsible in any way for any product delivered by the competitors or any injury or damage caused by the competitor. T3 Foundation and organization officials are not responsible for the damages caused by the competitors to third parties. T3 Foundation and TEKNOFEST are not responsible for ensuring that teams prepare and implement their own systems within the framework of the laws of the Republic of Turkey.

Turkey Technology Team Foundation herein in the specification each kinds change doesn't do that right hidden amount.