

Załącznik do regulaminu XII edycji festiwalu ROBOCOMP


Regulamin konkurencji „Poszukiwanie Znaku”

Chapter I – Competition Organization

1. A drone admitted to the competition must comply with all provisions contained in the General Rules, except where the provisions of these Rules further specify or refine the regulations of this competition.
2. The objective of the “Sign Search” competition is for the drone to autonomously locate designated signs placed on the floor and execute the required landing sequence.
3. The signs will be placed on the floor in the form of A4 printouts attached with tape. The Organizer will arrange them before the competition begins.
4. The competition is intended to evaluate area-search algorithms, sign detection, memorization of detected objects, and route planning.

Chapter II – Competition Procedure

§1 Competition Rules

1. Only drones may participate in this category. A drone used in another competition may also be used here.
2. The competition field is a tape-marked area of the floor containing identification signs. Each sign is printed on an A4 sheet in black ink using Wingdings font at size 500. Signs that may appear are: 

3. The Team's task is to carry out an autonomous mission consisting of locating the signs and performing a flyover or landing on them according to the sequence announced by the Organizer.
4. The sequence may include: flying over a sign, landing on a sign, and taking off again. The captain of each team draws the sequence before the attempt begins; up to two redraws are permitted. The final drawn sequence is binding and previous sequences cannot be reinstated.
5. The drone begins its attempt from a designated take-off area located outside the sign field and marked with tape.
6. Each Team has: a) one practice attempt; b) one scored attempt.
7. If the competition schedule permits, the Organizer may grant Teams additional practice sessions.
8. Timing begins when the drone takes off and ends upon the successful completion of the entire task sequence. The Team has 15 minutes from take-off to complete the task.
9. The task is considered successfully completed when the drone performs the entire sequence correctly, without operator intervention and without interrupting the attempt.
10. The following situations may occur during flight: a) the drone hits the ground – the attempt ends; b) the drone lands outside the designated area – the attempt ends.
11. If a sign is skipped, or a landing is performed on the wrong sign or in the wrong order, the attempt is considered unsuccessful.
12. Each Team has only one scored attempt counted toward the final ranking.
13. A time limit set by the Organizer applies to each attempt. If exceeded, the attempt is terminated and the Team receives an unsuccessful result.

§2 Determination of Winners

1. A Team's result depends on the time required to complete the full sequence in the correct order during the scored attempt. The shorter the time, the higher the ranking.
2. If the attempt is unsuccessful, the Team receives an unsuccessful result.

3. If it is not possible to determine the top three places based on time, the judges will decide the rules for further tie-breaking.