



# 2026 Macau International Invitational Competition in Artificial Intelligence

## Rules of Drone Fishing Competition

### General Competition Rules

#### Preparation rules:

- After registration, the participating drones must remain in the designated registration area and cannot be moved. Players may only retrieve their drones to the competition field when their teams turn to compete begins, and no drone exchanges are permitted during the race.
- During the competition, any team member who fails to complete registration after being called out by the referee three times will be deemed to have voluntarily withdrawn.
- The order of appearance in the competition will be announced by the organizing committee.
- All participants must comply with the competition rules and the referees decisions. Any objections to the referees ruling must be raised by the instructor or team leader at the venue to the referee of the respective event, who will make an on-the-spot decision and report it to the chief referee for confirmation. Post-competition appeals must only address scoring errors. Once the event concludes, the organizers will not accept any form of appeal.
- This competition does not feature video replay or a review panel. All results are determined by the on-site chief referee and subject to final confirmation by the chief referee.
- The Chief Referee of the Competition shall be responsible for interpreting the relevant rules. Participants who fail to comply with these regulations are not permitted to register. Any questions regarding these rules or the competition regulations must be submitted in writing (or via email) by the team leader to the organizing committee at least two weeks prior to the event date. Late submissions will not be accepted.
- All registration details for participating teams, including instructors names and athletes names, must be confirmed before the competition registration. No changes will be accepted after registration.

#### Unmanned aircraft specifications

- It can operate within a space of 10 meters long, 6 meters wide and 2.5 meters high.
- Protective measures must be in place to prevent collisions between the aircraft rotor (or any propulsion system).
- The drones wheelbase must be under 250mm.
- The drone and its accessories must not exceed 250 grams.
- Teams must select appropriate drone models for each challenge category to qualify for the competition. Each drone may only carry one fishing line, which can be equipped with either a Devils net or a magnet. Only drones that pass the qualification round will be eligible to compete.



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### Competition in Artificial Intelligence

- Unmanned aircraft motors have no limitations regarding carbon brushes or brushless systems.

#### Track description:

- The distance between the athletes take-off zone and the fish flag target area is 4 meters.
- The target zone displays 16 red and green fish flags mounted on 18cm-high triangular cones. These cones are arranged randomly on a four-tiered display platform measuring 240cm wide, 120cm high, and 120cm deep. The venue is open for athletes to practice before the official registration on competition day.

#### Competition Rules:

- Each team gets two flight opportunities. During each attempt, the team selects one different member to position the aircraft at the designated H takeoff point and remains in that area on standby. The flight commences when the referee blows the whistle, marking the start of the mission competition.
- Each team in this competition has two attempts, and players must be substituted, with rankings determined by the better performance.
- The competition results are ranked by score, with the winner being the one with the shortest flight time when scores are equal.

#### Task Description

- During the athlete warm-up, the drone is positioned at the green H takeoff point. The remote control can be activated upon hearing the referees whistle to begin flight.
- The player uses a suspended fishing rig with a Devils hook or magnet for aerial fishing. There are 16 fishing flags, divided into two difficulty levels (10 points and 15 points) based on their placement. Eight green flags are worth 10 points each, while eight red flags are worth 15 points each, with a total maximum score of 200 points.
- Fish Flag Specifications: The green fish flag is a 2.5cm-long, 5cm-wide textured Devils net that can be fished from either side. The red fish flag is a 2.5cm-long, 5cm-wide fabric flag containing a built-in magnet. Both red and green fish flags feature a wooden rod wrapped around their center for support. The wooden rods are fully inserted into the containers hole, with only the green or red fish flag remaining above the hole.
- Fish flags are placed in caves at various positions and heights. The objective is to retrieve the flag from the cave entrance, successfully land back at the endpoint, and score points by retrieving the flag.
- If a drone lands and stops its drone or makes an error during the competition, the pilot must retrieve it and fly it back to the takeoff zone.
- The fishing flag retrieved by the drone must be stopped in the landing zone.



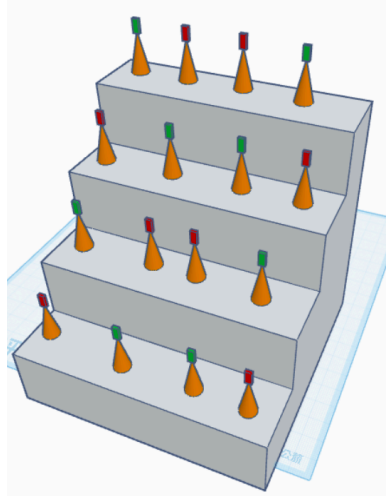
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Any team member must assist in removing and placing it in the scoring zone to earn points. If the drone stops during the time limit, the flag that hasnt been stopped in the landing zone will not be scored.

- Fish flags dropped mid-way do not score and cannot be returned to the target area.

### Match scoring

- Each round of this competition lasts 3 minutes, and the score is tallied when time runs out.
- Each team has two attempts, with no repetition allowed, and the higher score is recorded.
- In the event of a tie in points, the team with the shorter race time will be declared the winner.
- The top three teams with identical scores and time will compete in a playoff to determine the final ranking.



**Venue task diagram, for reference only**