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* The rules may be updated. Please check the website for the updates regularly. *

Drone Dance	Division	Team	Building
	Junior/Senior	1~5 Member 2~9 Drone	Pre-Made

1. Description

Drone dance is a game that more than two drones dance along the music. Drones should be programmed not to hit each other. Understanding drone and controlling ability is important.
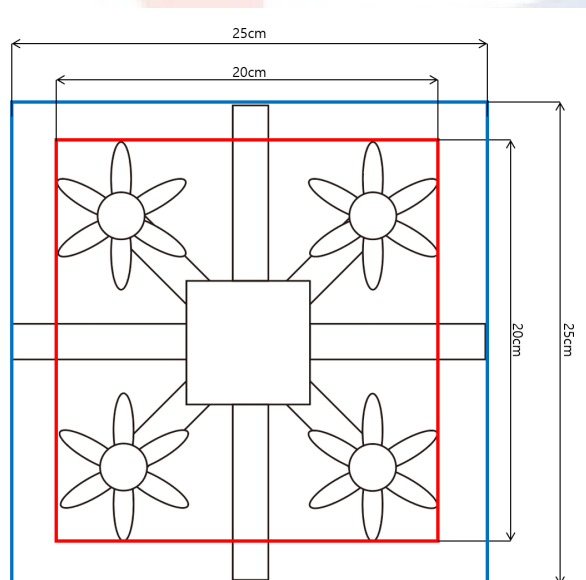
2. Robot

2-1. Types of robot Drone allowing coding.

2-2. Building robot (Pre-made)

2-2-1. Size of the robot

2-2-1-1. Size of the robot Drone must be within 20cm X 20cm including propeller protection guard, and 25cm X 25cm including sculpture.

**Regulation on size of drone and its sculpture**

2-2-1-2. Measuring size

1) Self-measurement: Participant can measure the size during building and practicing time given.

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2) Official measurement: Referee measures before competition starts.

3) Way of measurement: Measured with the robot turned on with the measurement tool. The participant is not allowed to object to referee's judgement.

4) Modification: If the size goes over the limit, the participant gets a chance to modify for a minute at the recording seat. Software modification is not allowed. If failed to modify, the trial will fail and be considered 'over size limit'.

Approved   Over-sized
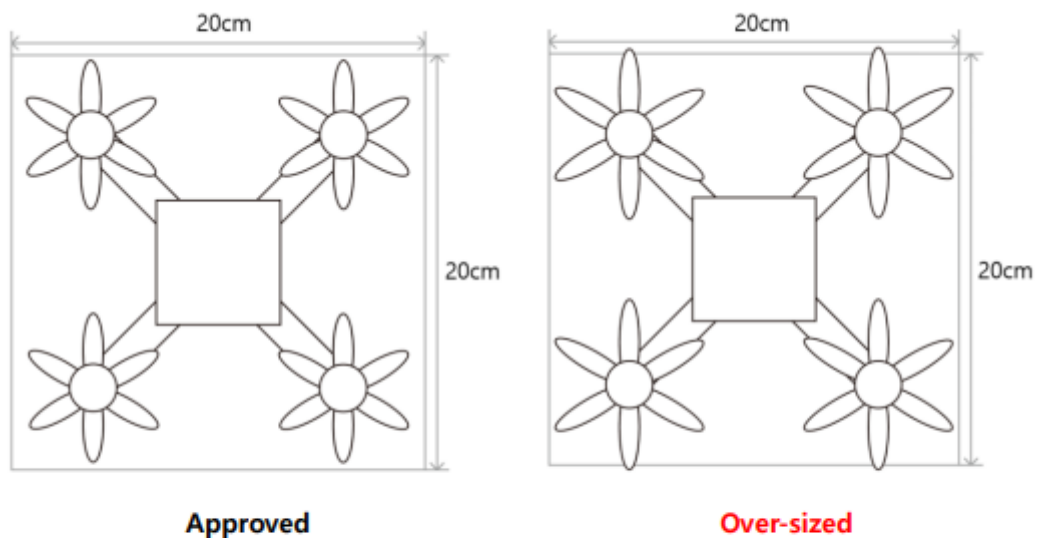
*Propeller must be within size when spinning

*Propeller protection guard must be within size limit.

2-2-2. Sensor of the robot No restriction.

2-2-3. Power of the robot

2-2-3-1. Composition of the power Independent movable power must be used. Combustion engine are not allowed to use.

2-2-3-2. Size of the power No restriction on current and voltage.

2-3. Programming and control Robot must be autonomously moved via program, and not be controlled by person except when starting.

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2-4. Propeller Protection Guard Drone must have a propeller protection guard on. If not, the drone is not allowed to fly.

3. Stadium

3-1. Official stadium No official field is used, but played on the main stage. Field may change due to competition situation.

4. Competition progress

4-1. Theme

4-1-1. 2023 Main theme **Free Theme**

4-2. Judges assess the drone flying. Results will be notified via website.

4-3. Competition Progress

4-3-1. Two practicing chance is given per team. (Lunchtime is excluded from production time.)

4-3-2. All team must finish producing till the finishing time. If not, points may be deducted based on the following table.

Points deduction due to over-time

Time	5 minutes	10 minutes	15 minutes	20 minutes	25 minutes	Over 30minutes
Score	-1point	-2points	-3points	-4points	-5points	-6points

4-3-3. When presenting, participant cannot modify the robot. However, if permitted by judges, the participants may change battery or fix parts under observation of judge.

4-3-4. Judges can ask questions to participants or request certain things. If not participating or answering faithfully, points may be lost based on judges' decision.

4-3-5. If not cleaning up or participating faithfully, points may be lost based on judges' decision.

4-3-6. If the robot seems unsuitable with the theme, the participant may be disqualified.

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4-3-7. Robots made by all teams may be displayed to audiences.

4-4. Hand In The participant must hand in the clip and production in USB to the host before presenting. The USB will be given back after copying the flies.

5. Examination Guideline

5-1. Examination guidelines The examination is held based on the guidelines below, and the points per fields are added together to assess the rankings.

Creativity (60)			Technique (40)	
Written Evaluation	**Drone Flying**	**Creativity**	**Completion**	**Program Understanding**
0/4/8/12/16/20	0/4/8/12/16/20	0/4/8/12/16/20	0/4/8/12/16/20	0/4/8/12/16/20

5-2. Tie-breakers administration criteria If tied, examined by the criteria below.

5-2-1. 1st criterion: Team with reduction in less fields.

5-2-2. 2nd criterion: Robot with higher score in technique with lower price.

5-2-3. 3rd criterion: Project with cooperative problem solving.

5-2-4. 4th criterion: Team with lower average grade.

5-2-5. 5th criterion: Robot with higher creativity score.

5-2-6. 6th criterion: Robot with better robot introduction and explanation.

5-2-7. 7th criterion: Robot with higher completeness score.