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**IARC (INTERNATIONAL AERIAL ROBOTICS COMPETITION)**

It’s an international event held in USA and CHINA which deals with UAV’s.

<http://www.aerialroboticscompetition.org/> (Here is the link for more details).

**IARC has been releasing different problem statement. We are working on MISSION 8.**

<http://www.aerialroboticscompetition.org/assets/downloads/mission8rules_2.0.pdf> (Here is the link of the problem statement we are working on).

Here is a video on the **MISSION**: <https://drive.google.com/drive/folders/1fC3yst4MuaSRGiw6xvgVhV7WivL8oHrt>

These are the some major concepts we will be going through to achieve the goal.

* MARKOV Prediction model.
* Trajectory prediction on DRONES.
* Vision based perception.
* SWARM optimization.
* RRT Algorithm.
* Backtracking MSTC-AREA.
* C-CAPT Algorithm.
* CNN based architecture.
* GAZEBO-Simulator.

Here are the some Technical papers. Go through it for more information.

<https://drive.google.com/drive/folders/1JM7i0hnBzmTJdxbfA98H53lHXNk7fu1T>

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GOOD LUCK! THANK YOU!