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**IARC (INTERNATIONAL AERIAL ROBOTICS COMPETITION)**

It’s an international event which deals with UAV’s.

**Click on below link for more details regarding the competition:** <http://www.aerialroboticscompetition.org/>

**IARC has several missions. We are working on MISSION 8.**

**MISSION 8:**

**Click on the below link for the problem statement we are working on:**

<http://www.aerialroboticscompetition.org/assets/downloads/mission8rules_2.0.pdf>

Click on the below link for MISSION 8 promo:

<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.

Click on below link for MISSION 8 Technical Papers.

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

**2020 International Aerial Robotics Competition (IARC):**

***Venue*:** August, 2020 in Beijing, China

***Reg* :** July, 2019.

**Click on below link for Budget structure:**

<https://drive.google.com/drive/folders/107FcXmOKNM71Nyt11q05ggsCh4_3zYtw>

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GOOD LUCK!