

PROJECT 1 – ADDING FILTER TO REDUCE NOISE

- After projecting the cube videos we can see the unstablity of the cubes. The main reason for this due to the translational and rotational matrixes.
- There are multiple approaches that we can perform to overcome the noise in these videos.
- Multiple filters can be used to reduce the noise, i have tried a simple weighted moving average filter.

MOVING AVERAGE FILTER:

- This is a simple filter that is commonly used for regulating array of datas
- The results were a little better than the last results for the cube videos
- The results were fine for testudo imposition when there is a slight rotation or motion in the video.
- But when there is a little rotation, the results are not so accurate.
- I have included the results of my cube videos

Youtube links:

<https://www.youtube.com/watch?v=EfskYk6kbEI>

<https://www.youtube.com/watch?v=09QcEEtOUcw>

[https://www.youtube.com/watch?v=N\\_HJGq-uOek](https://www.youtube.com/watch?v=N_HJGq-uOek)

<https://www.youtube.com/watch?v=3sM27wEYkV4>