

Motion Prediction of a Ping Pong Ball

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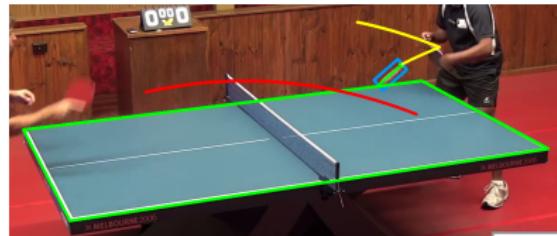
Goal and Problems Recap

- Goal
 - Predict future position of a Ping Pong ball
- Problems
 - Data and Conditions
 - Finding the Ping Pong table
 - Finding the Ping Pong ball
 - Calculating the current position of the ball
 - Calculating the future position of the ball

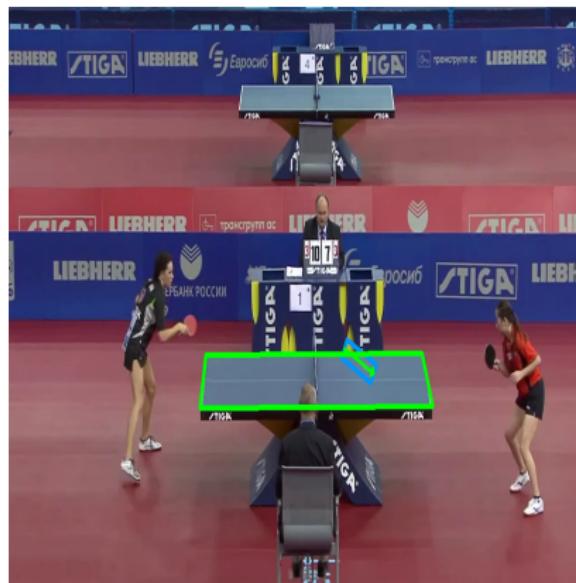
Result



Solution Explained



Not correctly working example



Things that can go wrong



Limitations of the Solution

- View point on the table needs to be on a certain angle.
- Table needs to be blue and ball needs to be white.
- Background must not be either white or blue.
- No moving camera or background.
- Table and ball need to be of a certain size in the video feedback. The size depends on background and quality of the video.

Possible Improvements for the Solution

- Improve the prediction update.
- Add tracking for different tables and ball colors.
- If something goes wrong improve feedback why.

Questions?

Thank you for your attention