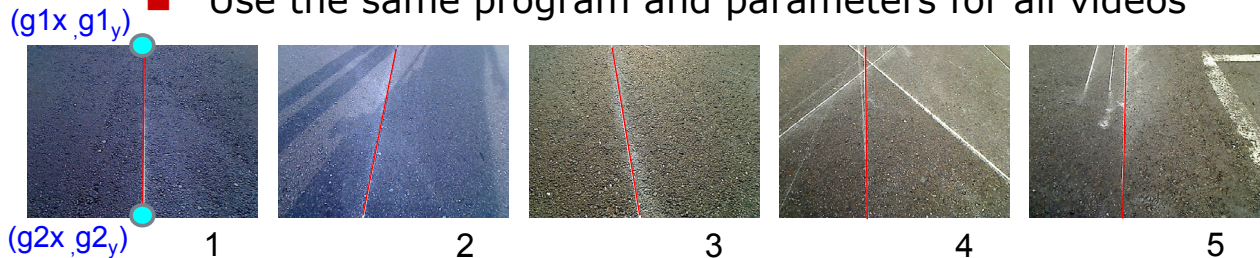


# Final Project

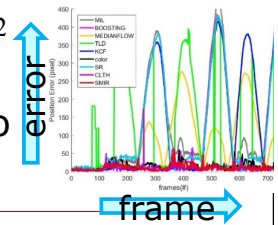
## □ Design one algorithm to identify the specific lines in the image sequences

- Initialize by mouse selection or known position and size
- Use the same program and parameters for all videos



## □ Evaluation

- Ground truth  $(g1_x, g1_y, g2_x, g2_y)$ : 325 0 325 480
- $error = \left( \sqrt{(p1_x - g1_x)^2 + (p1_y - g1_y)^2} + \sqrt{(p2_x - g2_x)^2 + (p2_y - g2_y)^2} \right) / 2$
- Show the error trajectory (each frame) and average error (over all frames) of each video
- (Average) Computational time of one frame



# Final Project

## □ Requirements

- Presentation at 1/11
  - Present 5mins., including: flowchart, key methods, results, reference (function, library or paper).
- Program: source code
- Report before 1/16
  - Describe the employed source code editor, library, and how to execute your program (input/interface/output)
    - E.g. Identify the version of Visual Studio and OpenCV
  - Introduce your work, method, and discussions
  - Analyze your results, including tracking rate and fps
  - With the link of your results in the web storage
- Upload to NTUT Elearning
- You can use OpenCV or any other library to complete this homework