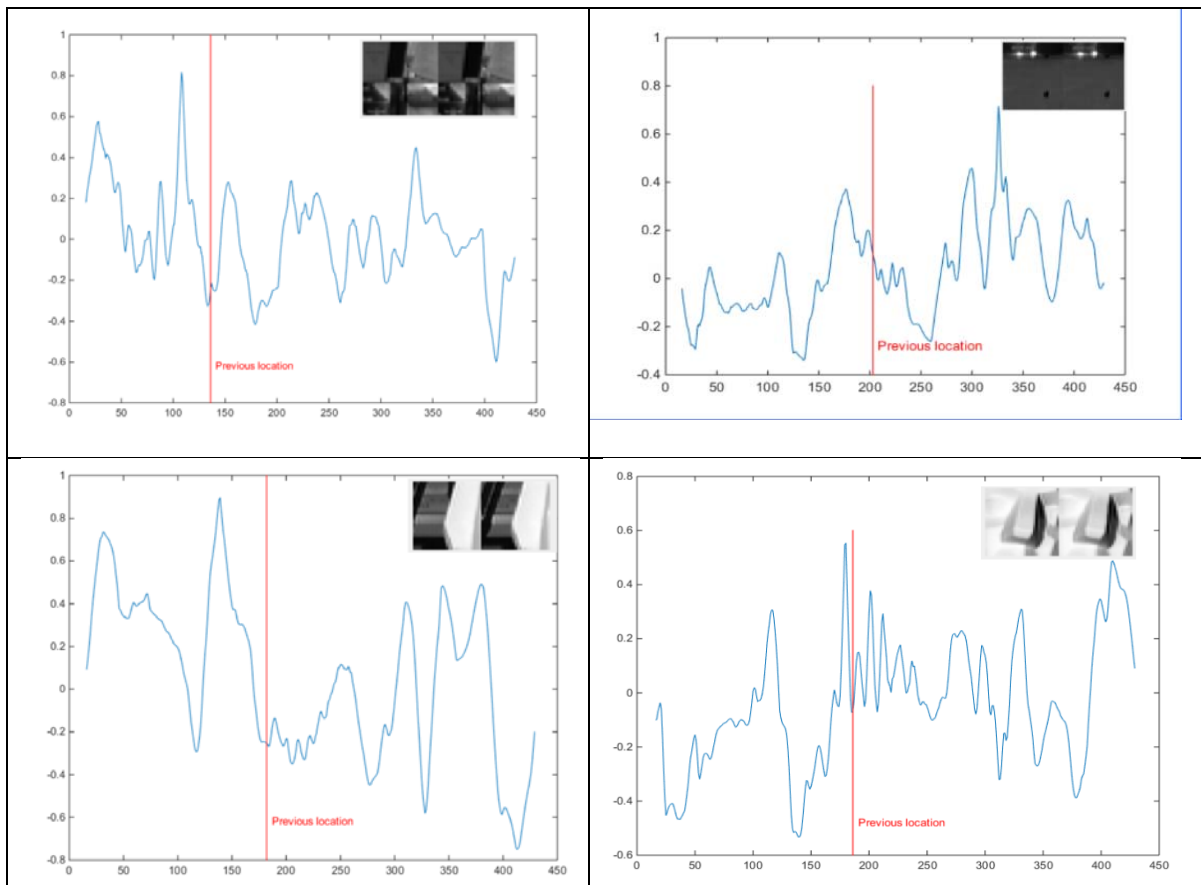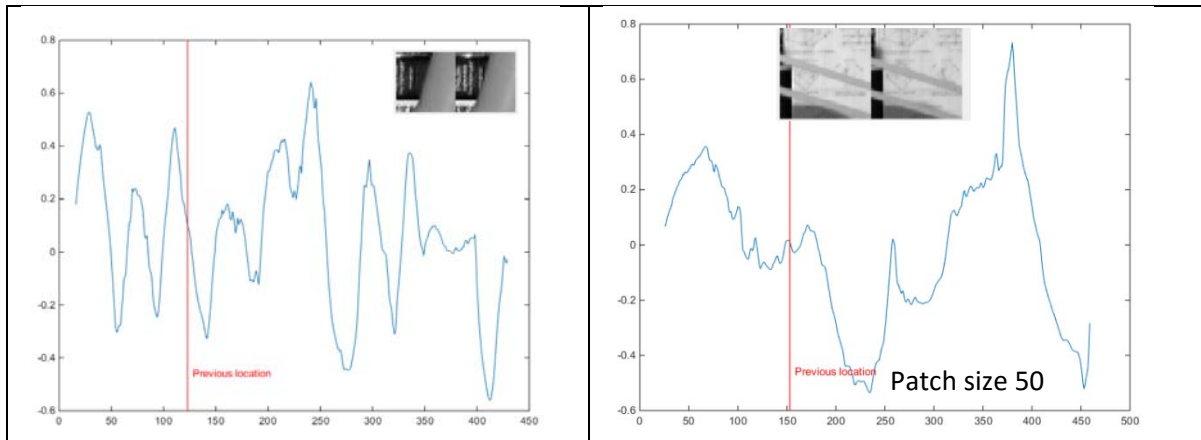Haoran Man

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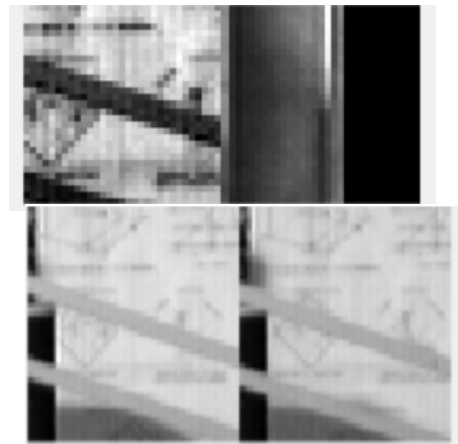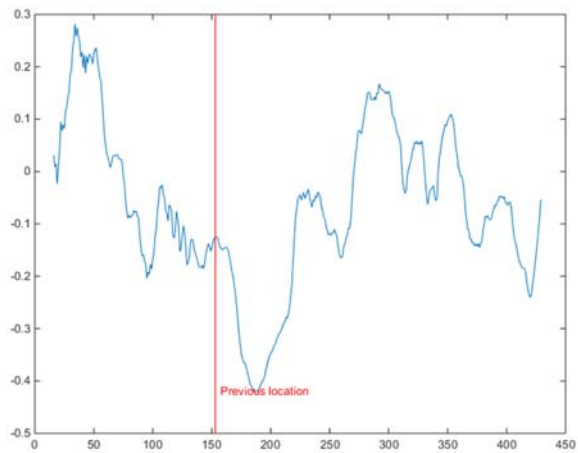## Solving correspondence

1. I used patch size of 30. In this picture, 30by30 can give us enough detail to distinguish most features in the picture.
2. I used Matlab function normxcorr2 to get normalized cross-correlation, and then find the maximum point in the line on the right figure. The original

Patch size 50

For P(6), patch size 30 failed: the features in the sub-image is not enough to get the real position. After changing to 50 patch size, the real point is detected.

The correlation calculation is below 0.3 we can set it to undefined.

The calculation for the rest of this report is using 30 batch size.