

Computer Vision

Fall 2017

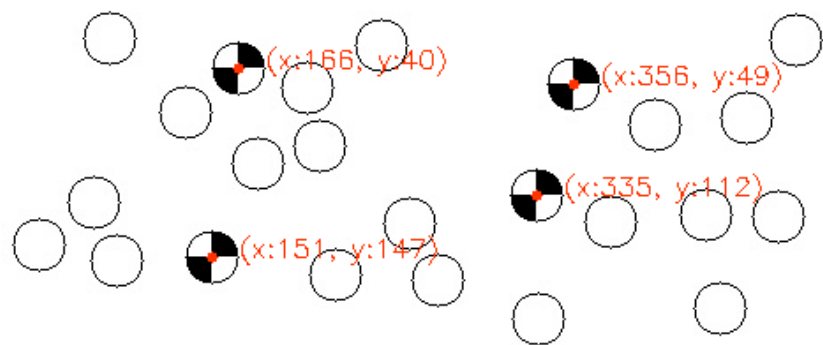
Problem Set #3

Zhichen Guo
zguo98@gatech.edu

1: Marker detection

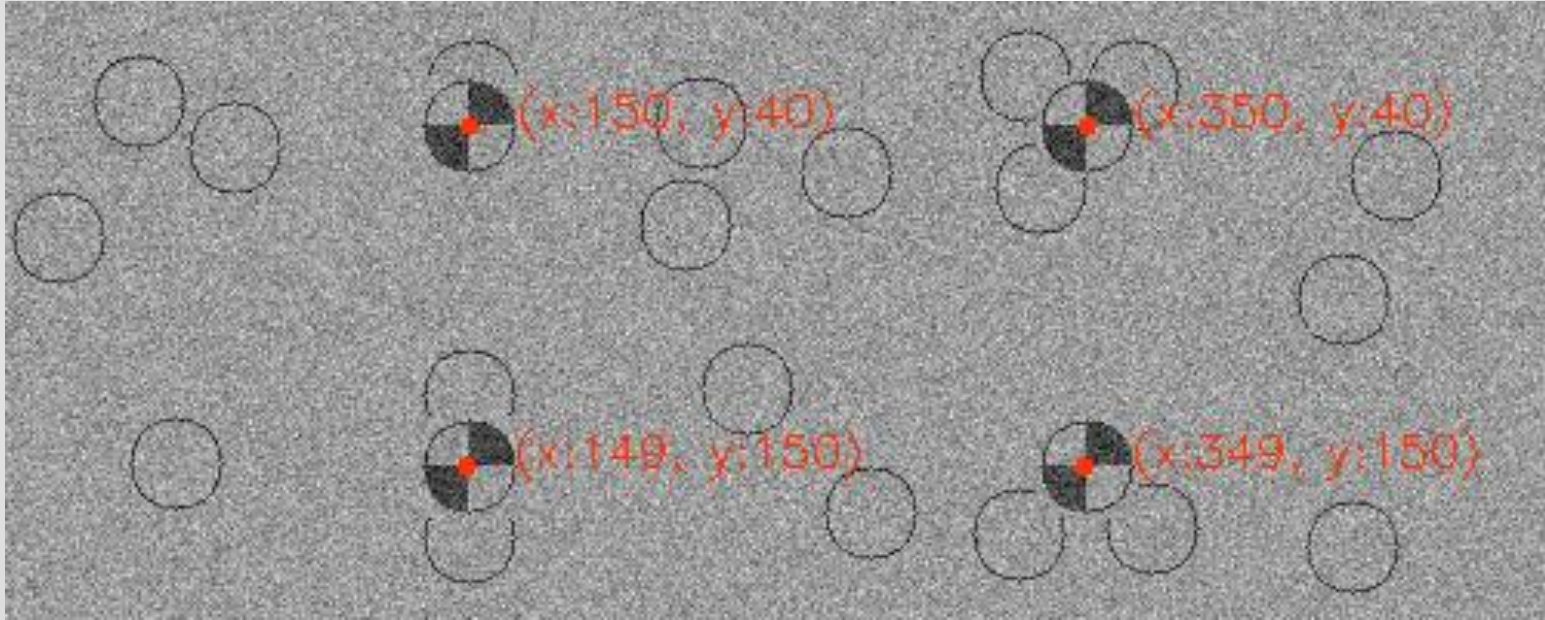


ps3-1-a-1.png



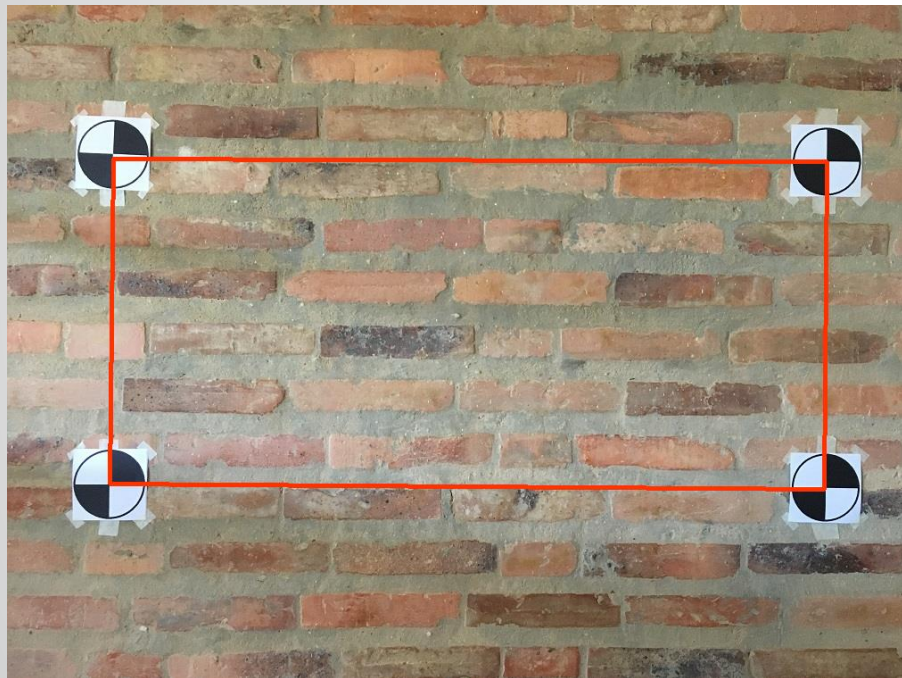
ps3-1-a-2.png

1: Marker detection (cont.)



ps3-1-a-3.png

2: Marker detection (wall scene)

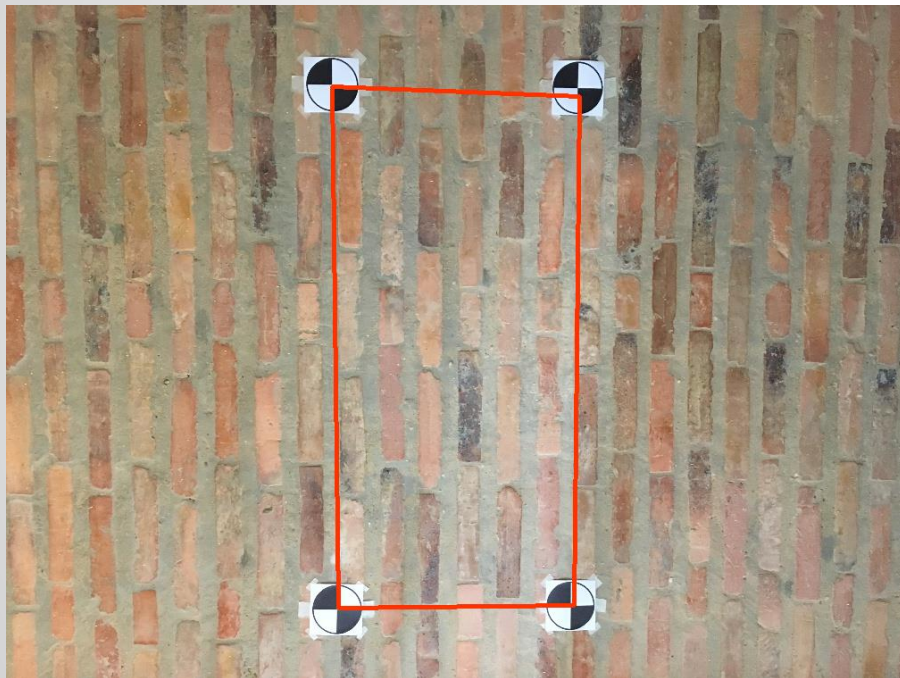


ps3-2-a-1.png

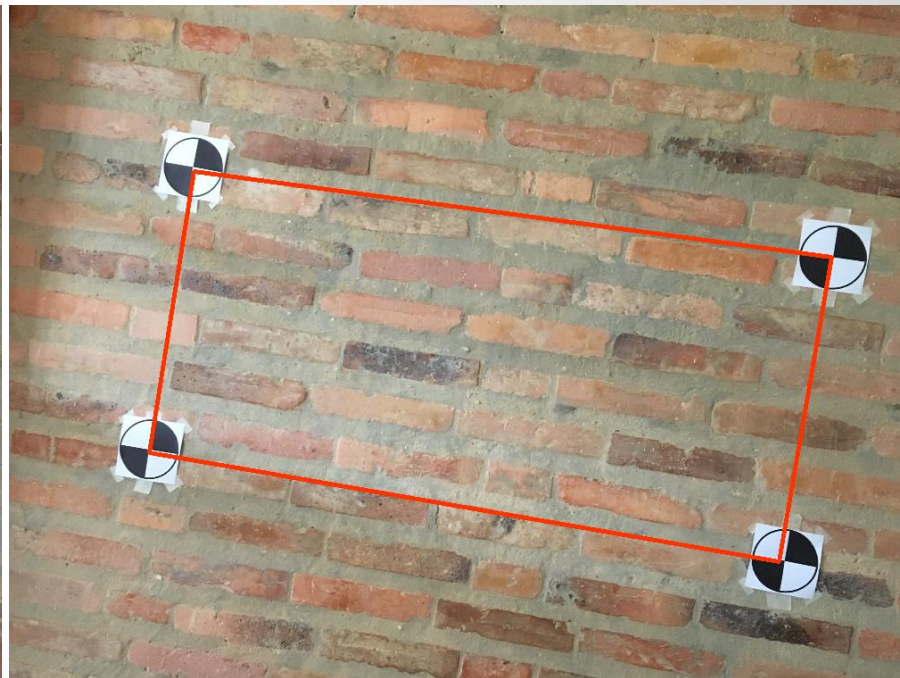


ps3-2-a-2.png

2: Marker detection (wall scene)

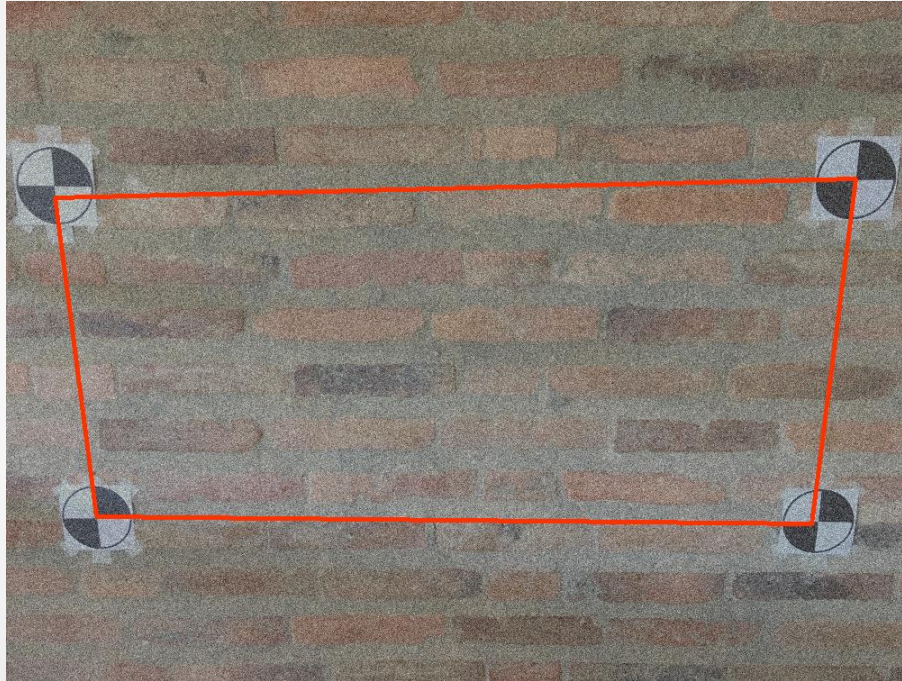


ps3-2-a-3.png



ps3-2-a-4.png

2: Marker detection (wall scene)



ps3-2-a-5.png

3: Projective Geometry



ps3-3-a-1.png



ps3-3-a-2.png

3: Projective Geometry (cont.)



ps3-3-a-3.png

4: Markers in Video



ps3-4-a-1.png



ps3-4-a-2.png

4: Markers in Video (cont.)



ps3-4-a-3.png

Youtube / Dropbox / etc. link:

ar_4-a-ps3-4-a.avi

https://youtu.be/NzJ8MClj_jg

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMX3h2dm85YVBreFE>

4: Markers in Video (cont.)



ps3-4-a-4.png



ps3-4-a-5.png

4: Markers in Video (cont.)



ps3-4-a-6.png

Youtube / Dropbox / etc. link:

ar_4-a-ps3-4-b.avi

https://youtu.be/IZJi_jKMocY

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMYk9mdmdQR09iVDg>

4: Markers in Video



ps3-4-b-1.png



ps3-4-b-2.png

4: Markers in Video (cont.)



ps3-4-b-3.png

Youtube / Dropbox / etc. link:

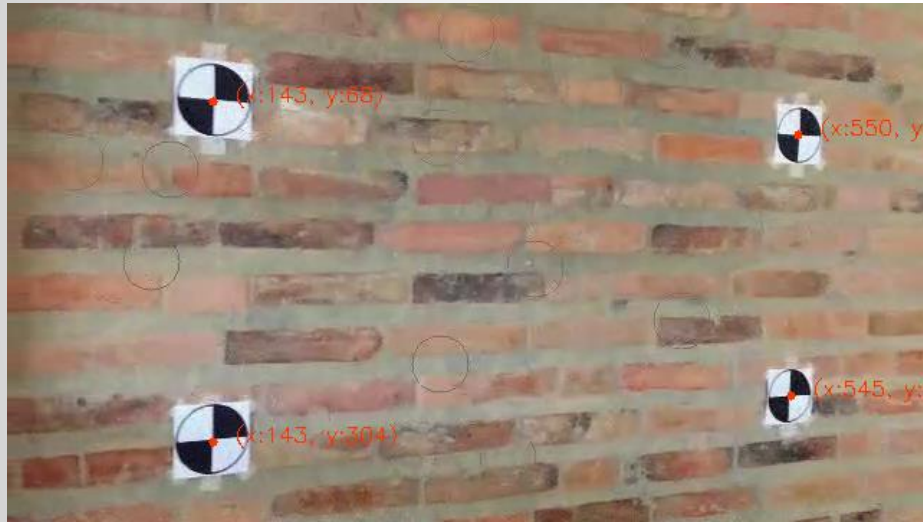
ar_4-b-ps3-4-c.avi

<https://youtu.be/JJsROOtTnn4>

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMY01HYIU5UFJ4T3M>

4: Markers in Video (cont.)



ps3-4-b-4.png



ps3-4-b-5.png

4: Markers in Video (cont.)



ps3-4-b-6.png

Youtube / Dropbox / etc. link:

ar_4-b-ps3-4-d.avi

<https://youtu.be/Hqd7DJbrcLo>

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMRW9MN0VyRjNTR0E>

5: AR in Video



ps3-5-a-1.png



ps3-5-a-2.png

5: AR in Video (cont.)



ps3-5-a-3.png

Youtube / Dropbox / etc. link:

ar_5-a-ps3-4-a.avi

https://youtu.be/HmZMTcfC_qI

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMUFNzUm12akFjRWM>

4: AR in Video (cont.)



ps3-5-a-4.png



ps3-5-a-5.png

5: AR in Video (cont.)



ps3-5-a-6.png

Youtube / Dropbox / etc. link:

ar_5-a-ps3-4-b.avi

<https://youtu.be/njtej1QVAks>

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMMFNwdDIb0kxeVE>

5: Markers in Video



ps3-5-b-1.png



ps3-5-b-2.png

5: Markers in Video (cont.)



ps3-5-b-3.png

Youtube / Dropbox / etc. link:

ar_5-a-ps3-4-c.avi

<https://youtu.be/ePjRM9KCGDg>

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMdzMyVzJMOUoxZm8>

5: Markers in Video (cont.)



ps3-5-b-4.png



ps3-5-b-5.png

5: Markers in Video (cont.)



ps3-5-b-6.png

Youtube / Dropbox / etc. link:

ar_5-a-ps3-4-d.avi

<https://youtu.be/vqnpysaQ2a0>

Or

<https://drive.google.com/open?id=0B7CKPyMDsaNMTnpJbmdtS1IXLUU>