

AA274 (Winter 2017-18): Problem Set 2

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1 Camera Calibration

- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)

2 Line Fitting

- (i) See submitted code.
- (ii) Using the suggested algorithm, I extracted the following lines for each data set.

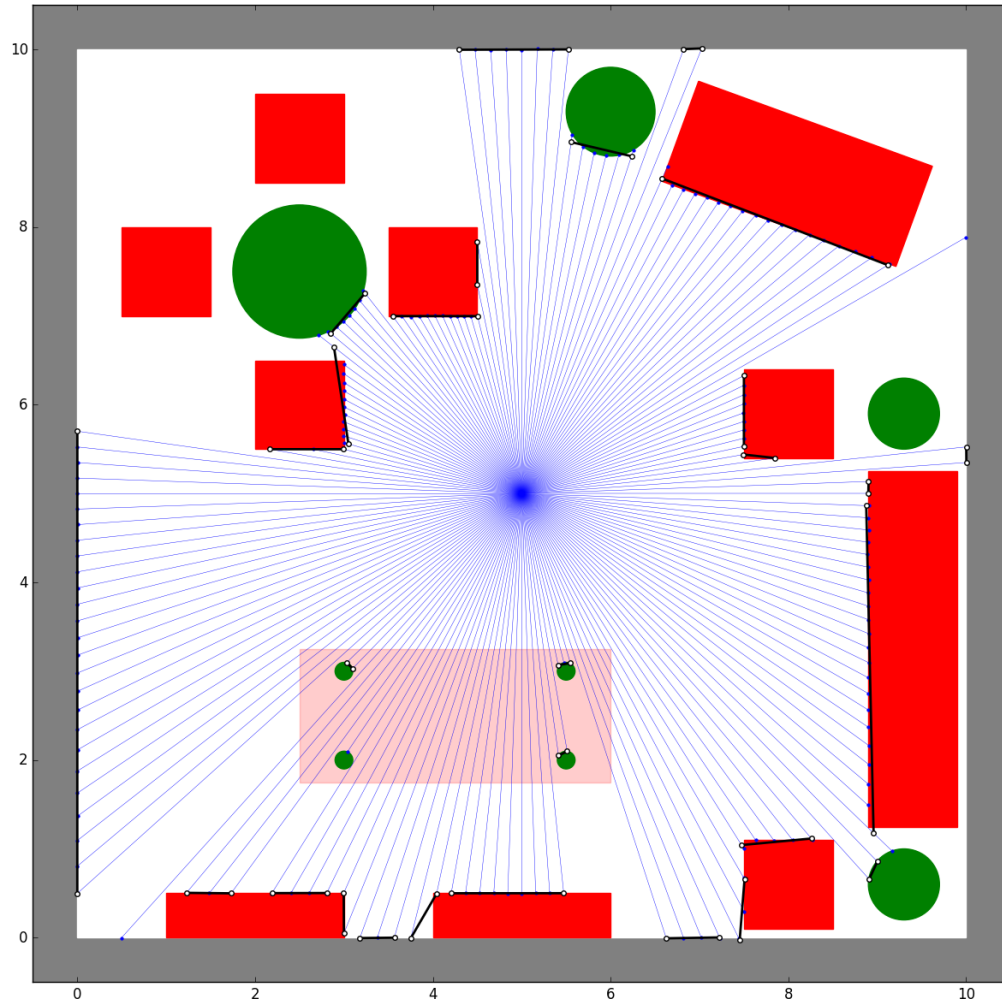
Range Data $(x_r, y_r, n_{pts}) = (5, 5, 180)$

LINE_POINT_DIST_THRESHOLD = 0.05

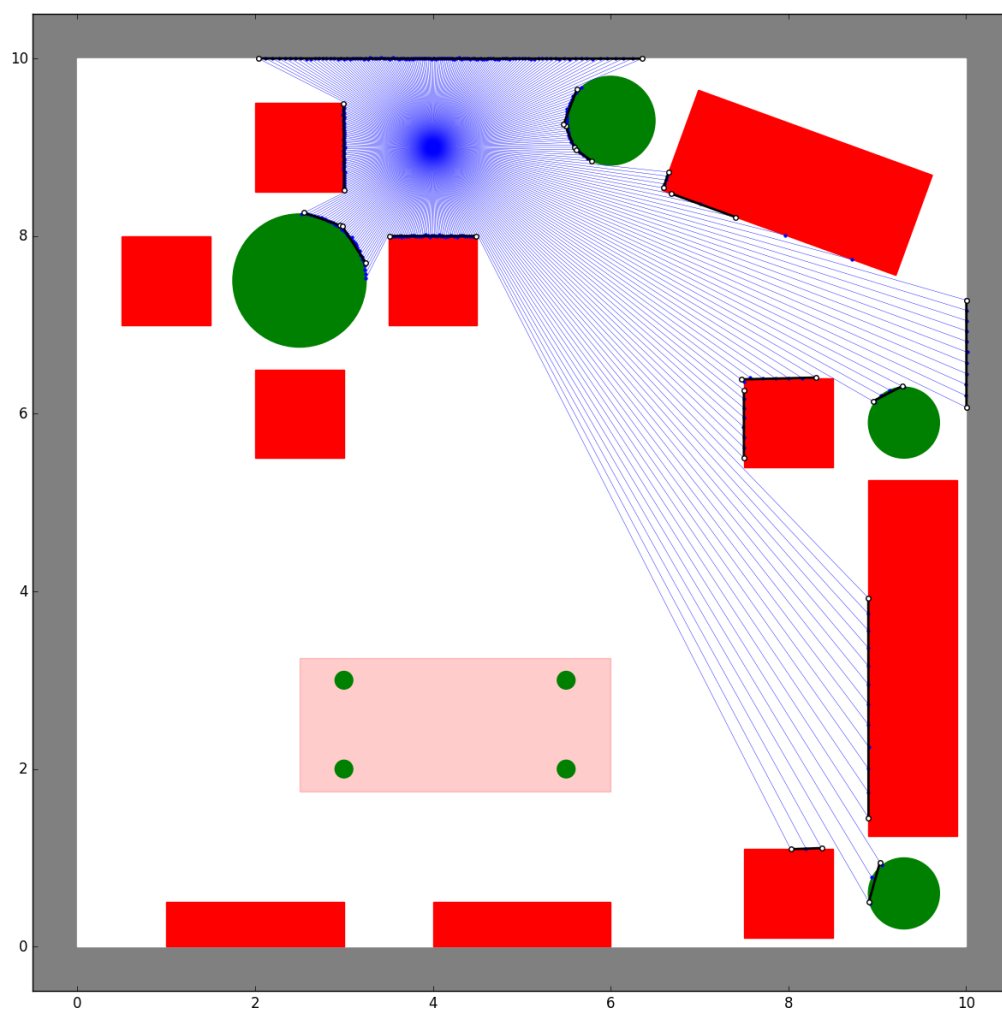
MIN_POINTS_PER_SEGMENT = 0.065

MIN_SEG_LENGTH = 2

MAX_P2P_DIST = 0.8



MAX_P2P_DIST = 0.54



Range Data $(x_r, y_r, n_{pts}) = (7, 2, 90)$

LINE_POINT_DIST_THRESHOLD = 0.05

MIN_POINTS_PER_SEGMENT = 0.165

MIN_SEG_LENGTH = 2

MAX_P2P_DIST = 0.42

