

Stereo Camera

- Obtain a pair of image data from time-synchronized two cameras

Rectangle Feature
Extractor & Matcher

- Extract perspectively wrapped rectangles and match them to each pairs between two image pair.

Camera Pose Estimator

- Estimate relative camera pose for each rectangles. Paired features will help to estimate the distance from feature to camera
- Use coupled line camera algorithm for pose estimation and triangulation for find distance.

Factor Graph SLAM
Framework

- Estimating camera poses and observed feature states.