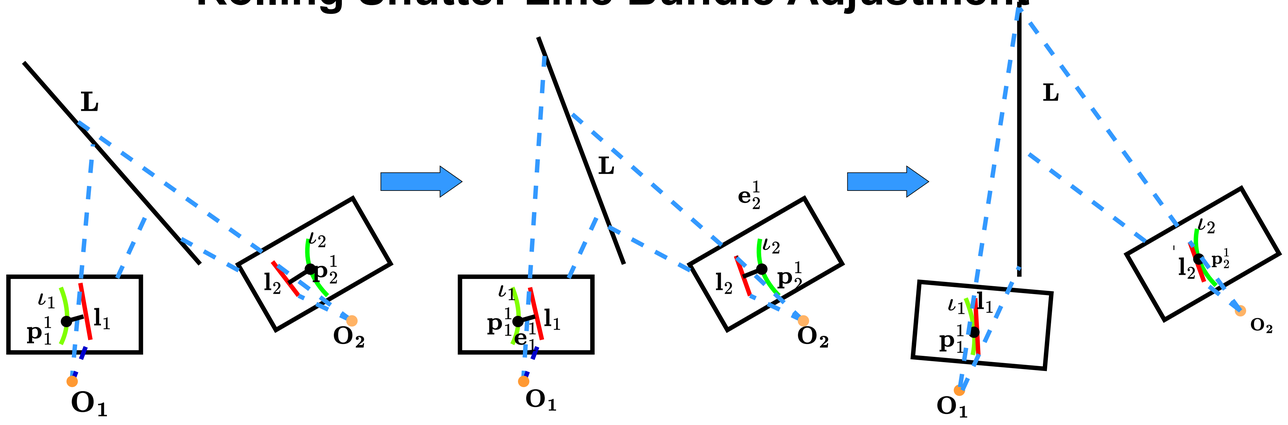
input

Rolling Shutter Line Bundle Adjustment



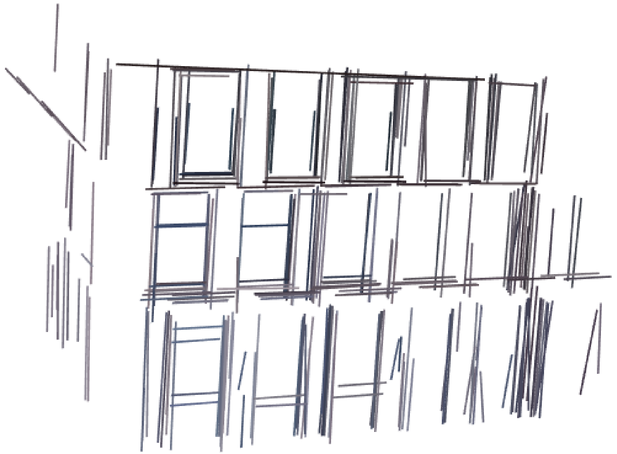
initialization iteration 1 ..... convergence

Distance error: $\mathbf{e}_d = \dfrac{l_1 u + l_2 v + l_3}{\sqrt{l_1^2 + l_2^2}}$

Tangent error: $\mathbf{e}_t = \mathbf{s}^\top \mathbf{s}'$

Final error: $\mathbf{e} = \mathbf{e}_d + \lambda \mathbf{e}_t$

cost function: $\boldsymbol{\theta}^* = \{\boldsymbol{\tau}^*, \mathbf{R}^*, \mathbf{t}^*, \boldsymbol{\omega}^*, \mathbf{d}^*\} = \arg\min_{\boldsymbol{\theta}} \sum_{j \in \mathcal{F}} \sum_{i \in \mathcal{P}_j} \left\| \mathbf{e}_i^j \right\|_2^2.$



output