$$Rt = \begin{cases} 0,0001 & 0 & 0 \\ 0 & 2,5 & 0 \\ 0 & 0 & 0,001 \end{cases}$$

$$G_t = \begin{cases} 1 & 0 & -\delta_{tran} \sin(\theta + \delta_{rot}) \\ 0 & 1 & \delta_{tran} \cos(\theta + \delta_{rot}) \end{cases} = \begin{cases} 1 & 0 & 0 \\ 0 & 1 & 10 \\ 0 & 0 & 1 \end{cases}$$
initial

$$V_{t} = \begin{bmatrix} -\delta_{train} \sin(\theta + \delta_{rot}) & \cos(\theta + \delta_{rot}) & 0 \\ \delta_{train} \cos(\theta + \delta_{rot}) & \sin(\theta + \delta_{rot}) & 0 \\ 0 & 1 \end{bmatrix}$$
initial
mean

$$H_{t} = \left[\frac{M_{y} - y}{2} - \frac{M_{x} - x}{2} - 1\right], g = \left(M_{x} - y\right)^{2} + \left(M_{y} - y\right)^{3}$$