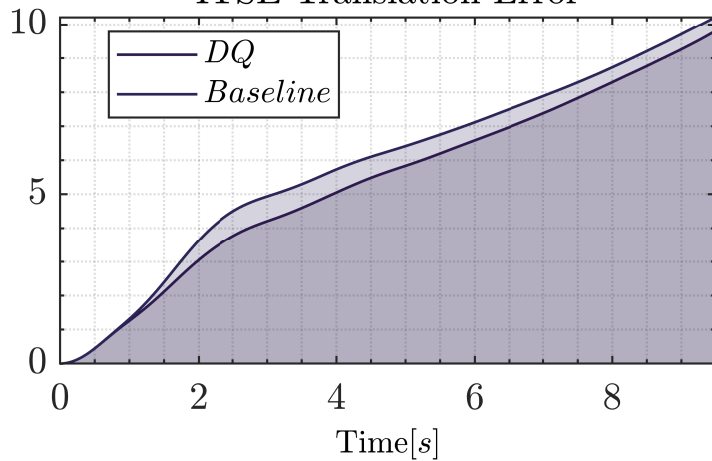


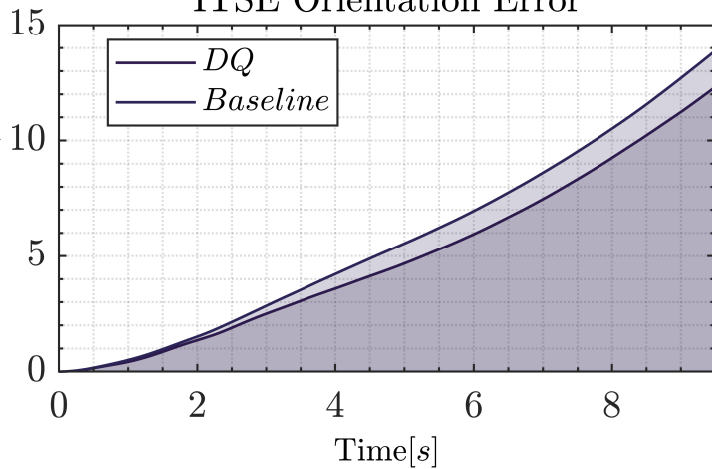
$$\frac{1}{N} \sum_{i=1}^N \left( \sum_{k=1}^t (t(k)) \| \mathbf{p}_{d,k} - \text{trans}(\hat{\mathbf{x}}_k^i) \| t_s \right)$$

ITSE Translation Error

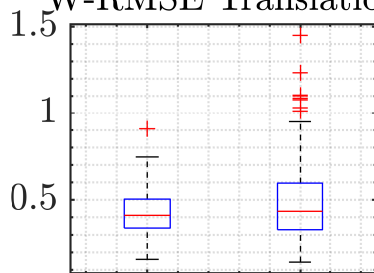


$$\frac{1}{N} \sum_{i=1}^N \left( \sum_{k=1}^t (t(k)) \| \log(\mathbf{q}_{d,k}^{i*} \circ \text{quat}(\hat{\mathbf{x}}_k^i)) \| t_s \right)$$

ITSE Orientation Error



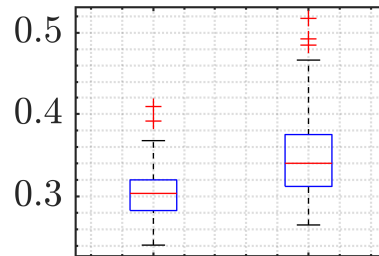
W-RMSE Translation



DQ

Baseline

W-RMSE Orientation



DQ

Baseline