General expression for any detected landmark and any world landmark

$$\left(\vec{z}_t - \vec{\hat{z}}_t\right)^T \cdot Q_t^{-1} \cdot \left(\vec{z}_t - \vec{\hat{z}}_t\right) \leq \epsilon$$

Specific expression for any detected landmark and for the world landmark number j

$$\left(\vec{z}_t - \vec{\hat{z}}_{jt}\right)^T \cdot Q_{jt}^{-1} \cdot \left(\vec{z}_t - \vec{\hat{z}}_{jt}\right) \leq \epsilon$$

Specific expression for the detected landmark number i and for the world landmark number j

$$\left(\vec{z}_{it} - \vec{\hat{z}}_{jt}\right)^T \cdot Q_{jt}^{-1} \cdot \left(\vec{z}_{it} - \vec{\hat{z}}_{jt}\right) \leq \epsilon$$