

$$D(\mathbf{T}, \mathbf{R}) = \min D_{\phi}(\mathbf{T}, \mathbf{R})$$

$$D_{\phi}(\mathbf{T}, \mathbf{R}) = \frac{1}{M_{\phi}} \sum_{k=1}^{k_{\phi}} d(\mathbf{t}_{\phi_t}(K), \mathbf{r}_{\phi_r}(k)) m_k$$