

Objective interpretation

$$\begin{aligned} \max. \sum_i \mathbb{E}_{q_i} \log \frac{p(x_i \mid t_i, w)p(t_i)}{q_i(t_i)} \\ = \sum_i \mathbb{E}_{q_i} \log p(x_i \mid t_i, w) + \underbrace{\mathbb{E}_{q_i} \log \frac{p(t_i)}{q_i(t_i)}}_{-\mathcal{KL}(q_i(t_i) \parallel p(t_i))} \end{aligned}$$