$$P(\mathbf{e}|D_i) \in \{0.2, 0.8\}$$

$$P(D_i|\mathbf{e}) = \frac{P(\mathbf{e}|D_i) \cdot P(D_i)}{P(\mathbf{e}|D_i) \cdot P(D) + (1 - P(\mathbf{e}|D_i)) \cdot (1 - P(D_i))}, \quad i \in \mathcal{K}$$

$$P(D_i)^{\theta_0} = 0.5$$

$$P(D_i)^{\theta_{t+1}} = \beta_i^{\theta} \cdot P(D_i|\mathbf{e}) + (1 - \beta_i^{\theta}) \cdot P(D_i)^t$$

$$\beta_i^{\theta} \in [0.3 - 0.85], \quad i \in \mathcal{K},\ \theta \in \Theta^t$$

$$\mathrm{MoveValue}(\theta_{t+1}) = \frac{H(\theta_t) - H(\theta_{t+1})}{\mathrm{MoveCost}(\theta_t, \theta_{t+1})}$$

$$H(\theta) = \sum_{i \in \mathcal{K}} H(P(D_i)^{\theta})$$

$$\theta_{t+1} = \operatorname*{argmax}_{\theta' \in \Theta^t} \mathrm{MoveValue}(\theta')$$