$$R_j = \frac{1}{2} \times : j = argmin \sum_{i=1}^{k} c(j|i) Tij(x)$$

$$P(ersor) := P(C=1 \land X \notin R_1) + P(C=2 \land X \notin R_2) +$$

$$P(C=3 \land X \notin R_3) + \cdots + P(C=k \land X \notin R_k)$$

$$= \pi_i \int_{\mathcal{I}_i} f_i(x) dx + \pi_2 \int_{\mathcal{I}_i} f_2(x) dx + \cdots + \pi_k \int_{\mathcal{I}_k} f_k(x) dx$$

$$\mathcal{X} - R_i \qquad \mathcal{X} - R_2 \qquad \mathcal{X} - R_k$$