

$$\tilde{s}_i^2 = \sum_{y \in Y_i} (y - \tilde{m}_i)^2 \tag{24}$$

$$\frac{1}{n}(\tilde{s}_1^2 + \tilde{s}_2^2) \tag{25}$$

$$\tilde{s}_1^2 + \tilde{s}_2^2 \ J(\vec{w}) = \frac{|\tilde{m}_1 - \tilde{m}_2|^2}{\tilde{s}_1^2 + \tilde{s}_2^2} \tag{26}$$