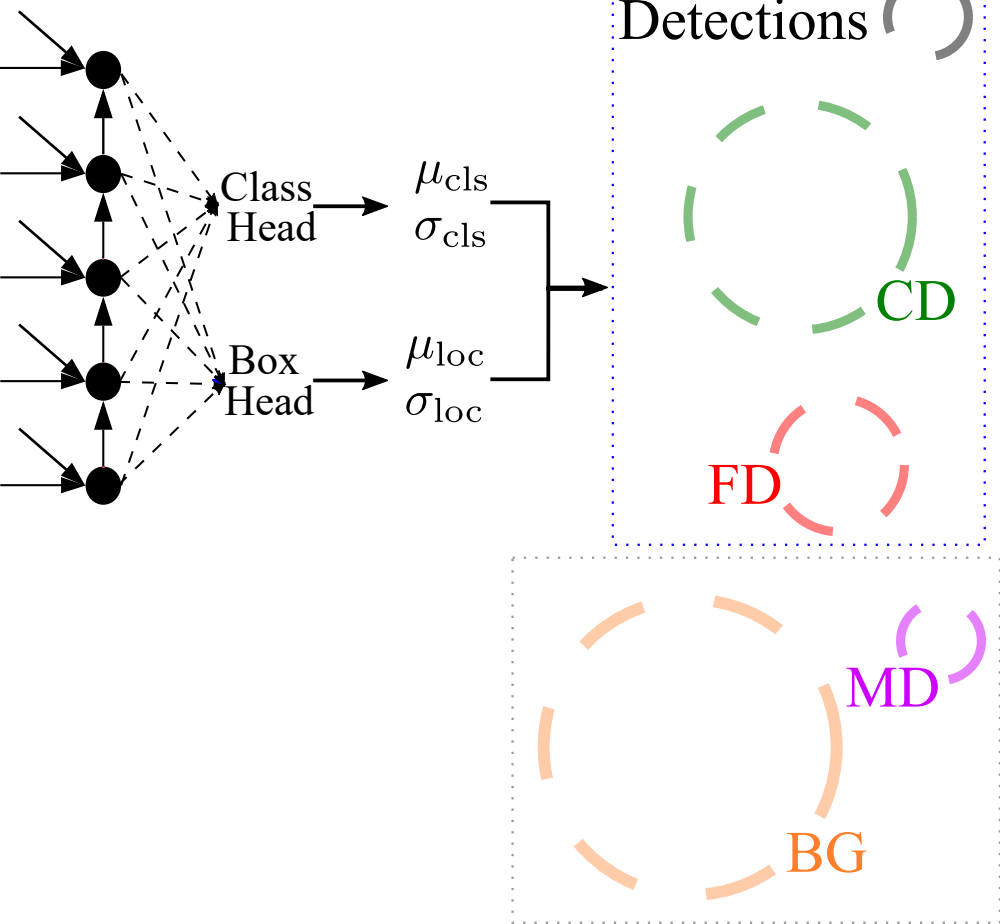


I- Probabilistic Detector Output

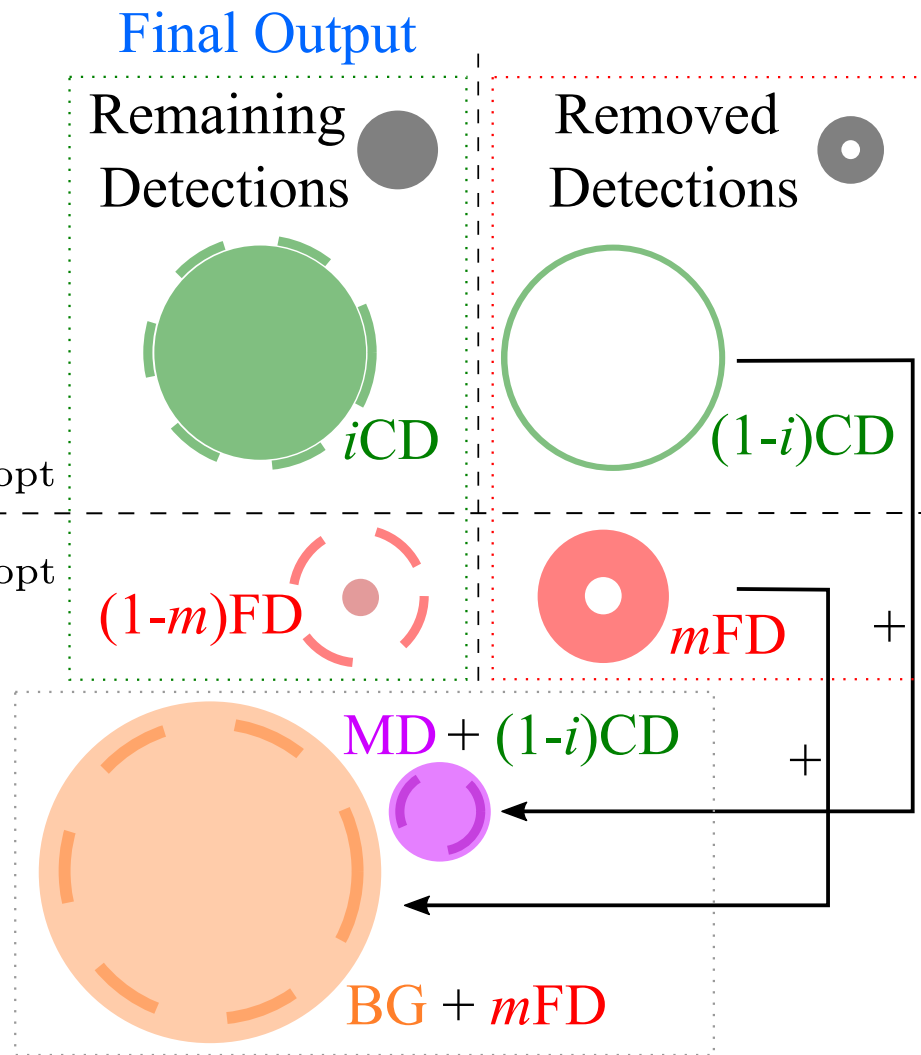


II- Optimized Cost-Sensitive Thresholding

$$\mathbf{w}_{\text{opt}}^{\top} \times (\sigma_{\text{cls}}, \sigma_{\text{loc}})^{\top} \begin{cases} \leq \delta_{\text{opt}} \\ > \delta_{\text{opt}} \end{cases}$$

The thresholding process is guided by the optimal weight vector \mathbf{w}_{opt} and the optimal threshold δ_{opt} .

III- Post-Thresholding



Set Budget b \Rightarrow $\mathbf{w}^{\top} \times (\sigma_{\text{cls}}, \sigma_{\text{loc}})^{\top} \rightarrow$ Threshold $\delta \rightarrow$ Evaluate via $\text{CD}@ \text{FD}(b)$ or $\text{FD}@ \text{CD}(b)$