

1. GMM 4 Each Class.

$$G_{c_1} = \text{APDF}_{c_1}$$

$$G_{c_2} = \text{APDF}_{c_2}$$

$$\vdots$$
$$G_{c_n} = \text{APDF}_{c_n}$$

1. GMM

$$\{x_1, \dots, x_n\}$$

$$\Downarrow G_{c_1}, G_{c_2}, \dots, G_{c_n}$$

2. Mixture Set

Threshold.

$$\frac{c_m}{\Delta}, c_n.$$

$$\{ \parallel G_{c_m}(\vec{x}) - G_{c_n}(\vec{x}) \parallel < P_{th} \}$$

$\Downarrow$  PDF (inverse)  $\rightarrow$  Sampling

$$x_{po}, x_{ng}$$

3. Anchor Sampling.

$$J = w_1(D) + w_2(P)$$

(Objective Func.)

$$D(\text{distance}) = \parallel x - x_{po} \parallel_2^2 + \parallel x - x_{ng} \parallel_2^2$$

$$P(\text{probability}) = CE(x).$$

$$CE(x) = -G_{c_n}(x) \log G_{c_m}(x)$$

求得  $J(x)$ .

Optimization by  $J(x)$

Region Search Anchor  $x_{Ac}$