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Keywords:  ${}^{\bullet}$  o  ${}^{\bullet}$  o  ${}^{\bullet}$  ( )  ${}^{\bullet}$  for  ${}^{\flat}$  ,  ${}^{\bullet}$  ss  ${}^{\bullet}$  or  ${}^{\bullet}$  or  ${}^{\bullet}$  s or  ${}^{\bullet}$ 

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$$p \ x | \Theta_k \qquad \sum_{i=1}^k \alpha_i p \ x | \theta_i \qquad \sum_{i=1}^k \alpha_i p \ x | \mu_i, \Sigma_i ,$$

k , b ,  $\sum_{i=1}^k \alpha_i$  ,  $p \ x | \theta_i$ 

$$p \ x | \theta_i \qquad p \ x | \mu_i, \Sigma_i \qquad \frac{1}{|\pi|^{\frac{1}{2}} |\Sigma_i|^{\frac{1}{2}}} e^{-\frac{1}{2}(x-\mu) |\Sigma|^{\frac{1}{2}}(x-\mu)},$$

 $\Sigma_i$   $\Theta_k$  b  $\Theta_k$  ...  $\Theta_k$   $\Theta_i$ , ...  $\Theta_k$  ...

N . . . .  $\mathcal{X} = \{x_t\}_{t=1}^N$ , and b are the second of  $\Theta_k$  and C $\alpha_i^+ = \frac{1}{n} \sum_{i=1}^N P_i |x_t - \mu_i^+| = \sum_{i=1}^N x_t P_i |x_t| / \sum_{i=1}^N P_i |x_t|$  $\Sigma_i^+ = \sum_{t=0}^{N} P_t i | x_t - \mu_i^+ | x_t - \mu_i^+ |^T / \sum_{t=0}^{N} P_t i | x_t ,$ .  $P i|x_t = \alpha_i p x_t |\theta_i| / \sum_{i=1}^k \alpha_i p x_t |\theta_i|$  . b b b b b уу ...  $y \in Y \subset \mathcal{R}^m \qquad x \in X \subset \mathcal{R}^d \qquad \dots$  $y \in Y \subset \mathcal{R}^m$  . D p(x,y) = p(x)p(y)x . q(x,y) = q(y)q(x)y y = y .  $D_x = \{x_1, \cdots, x_n\}$  y = yp y | x p x q x | y q y $H p \parallel q \qquad \int p y |x p x \dots q x| y q y dxdy.$  $y \quad \{ \quad , \cdots, k \} \subset R \quad \dots \quad y \quad b \quad \qquad b \quad \qquad y \quad b \quad \qquad y \quad y \quad y \quad \qquad y \quad y \quad \qquad y \quad \qquad$ 

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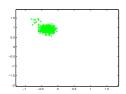
 $b \quad \bullet \quad o \quad p \quad A \quad for \quad ss \quad p \quad rs \quad 555$ 

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Step 3: !	$\Theta_k \ l$ . $\Theta_{k-1}' \ l$ .		$\Theta_k$ $l$	, , , , b , , , ,	
Step 4:	Acc M	$J \Theta'_{k-1}$	$l - J \Theta_k l$	$ \begin{array}{ccc} I & Acc & M & > \\ & b & \Theta'_{k-} \end{array} $	> 1 l
Step 5:	Acc S	$J \Theta'_{k+1} l$	$-J\Theta_k l$	$ \begin{array}{ccc} I & Acc & S & > \\ & b & \Theta'_{k+1} \end{array} $	> 1
					k

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